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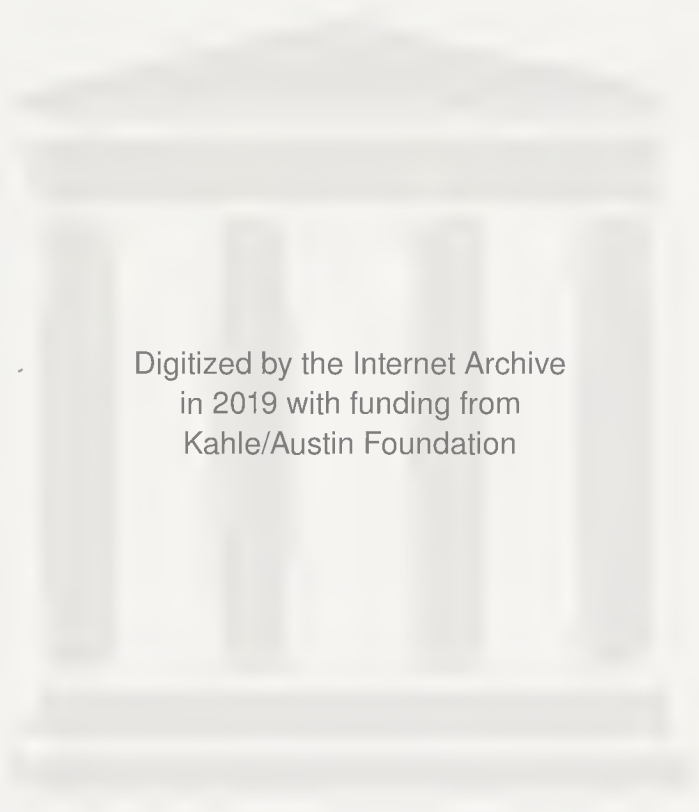
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The 162nd Continuous Year of Publication

No.
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THE
OLD

FARMER'S

1954

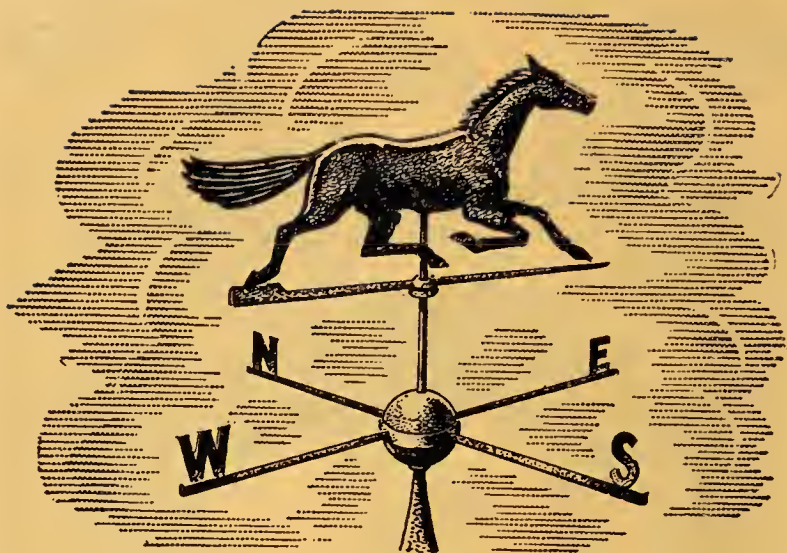
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BY
ROBERT B. THOMAS

Price 25 Cents

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The long term forecast is like life. It has its uncertainties. But it also has its certainties. And in no way can those certainties be set aside. One is the eventual advent of the twilight days, and the certainty that the time to provide for them is in the spring and summer of our lives.

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Photo by R. S.

EARLY MORNING AFTER THE ICE STORM, DUBLIN, N. H.
(To Mark Twain, Nature's greatest spectacle.)



Photo by Miss D. E. Taylor

"ROCKABYE, MY BABY"

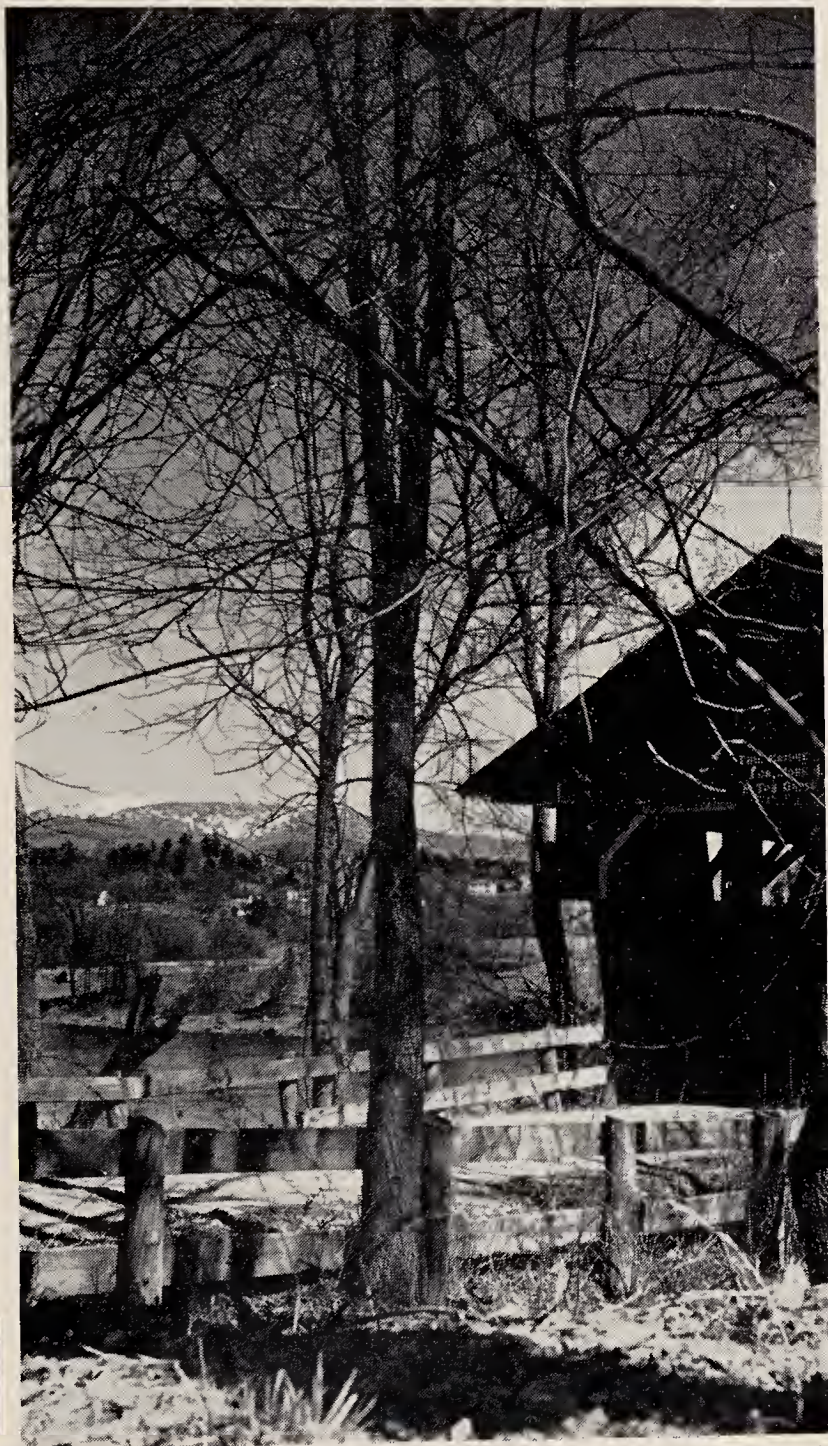


Photo by R. S.

NEWBURY, VERMONT.

April 24, 1953



"HAPPY NEW YEAR — YOURSELF!" SAYS HARLAND
COVEY'S NANNY AT BRADFORD, VT. *Photo by R. S.*

Number One Hundred and Sixty-two.

THE
(OLD)
FARMER'S ALMANACK,

CALCULATED ON A NEW AND IMPROVED PLAN
FOR THE YEAR OF OUR LORD

1954

Being 2nd after BISSEXTILE or LEAP YEAR, and (until July 4)
178th year of American Independence

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations
and the Farmer's Calendar for every month
in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

BY ROBERT B. THOMAS.



Who faulteth not, liveth not; who mendeth faults is commended: The Printer hath faulted a little: it may be the author oversighted more. Thy paine (Reader) is the least; then erre not thou most by misconstruing or sharpe censuring; least thou be more uncharitable, than either of them hath been heedlesse: God amend and guide us all.

Robartes, 1613.

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DR. EUGENE L. SWAN

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TO PATRONS AND CORRESPONDENTS

This is the 162nd consecutive annual edition of The Old Farmer's Almanac(k). It is for the year 1954, or Atomic Year 10. Last year's edition enjoyed the largest paid almanac news stand sale in the world. For those who were unable to obtain copies, an additional supply is being distributed this year.

During the past year it had become apparent in the minds and hearts of American parents and wives that there is no great victory, moral or otherwise, in the sacrifice of American lives in behalf of a shopworn sentence in Woodrow Wilson's long discarded "14 Points." Agreement to the "Uneasy Truce" of July 29th was realistic recognition of public opinion. Further enlightened self interest is needed for the revivifying of the American tree of state. The day dreams of the will o' the wisps which would carry us to battle fronts we are unprepared to defend, and which propose the championing of the ambitions of others in the guise of American idealism were ever but signs of frustration and weakness. The death of Senator Taft on July 31st has served to dramatise the greatness of the man . . . and to make the things he stood for understood and appreciated.

At home, in various high court decisions and local ordinances, considerable inroads have been made upon the individual rights of American citizens. Investigatory bodies at the national level have pressed this trend further. However, there is no denying the laxity of our laws and public opinion which, in the dangerous times upon us, are protecting our enemies from detection and prosecution. In this, as in other things, we urge, as we did last year, non acceptance of the hallucinations and emotional outbursts of the attention-getters-at-any-price.

As in other years, David Morton has written the Calendar poetry. A collection of his poetry of the past eight years, as you will note elsewhere, is being published by us in November, 1953. Benjamin Rice has written the Farm Calendars, Anecdotes, Pleasantries, and much else; Loring Andrews, the astronomical matter. Many governmental, quasi-public, and private sources have been called upon as well. A careful study of the matter in this issue, especially the historical dates, will test the powers of even the liberally educated. Pages 104 and 105 have been revised to facilitate correction of our astronomical data to fit the Almanac's widened circulation.

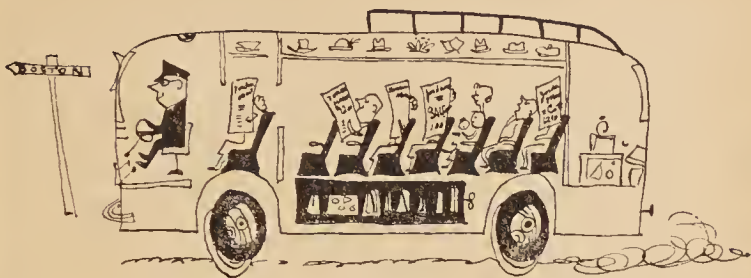
Mrs. M. R. Moosup, Conn.: If you have forgotten the information on the card which you say you failed to mail us, we may be able to recall it for you, but if we did how would you know we were correct? Mrs. A.B.P., Akron, Ohio: Our supply of safety match scratching surface in liquid form was used up on Grandpa's last pair of corduroy trousers. Tell your man to use his belt buckle or buy him a lighter. T. L., Kalamazoo, Mich.: Easter Day for the next 6000 years will fall on Easter Day, and that's as far as we intend to go for you along that line for free and no postage paid return envelope. E. G., Los Angeles: Yes, L. A. smog could be funneled away by building huge brick chimneys up through the clouds, but why don't you try holding up a couple first to see how they work? M. H., New Orleans: If you think you caught goose pimples by getting too near your neighbor's goose, you probably would be wise to keep away from the elephant cages during your next trip to the circus. Elephantitis is far more serious.

In conclusion, it is beyond our capacity to deliver adequately our full thanks to the very many whose interest continues in the welfare of this publication. We trust our efforts in this direction may continue to deserve your past and present confidence. Man, however, in these things can only propose. God is the true disposer. In this then it is by our works and not our words we would be judged. These we hope will sustain us in the humble, though proud, station we have so long held, in the name of

Your ob'd servant,

W. O. Thomas.

August 1, 1953



. . . ON TO BOSTON

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Browse through our store . . . you'll find everything for yourself, your family, your home.

Jordan Marsh

NEW ENGLAND'S LARGEST STORE
BOSTON, MASS.

ECLIPSES FOR THE YEAR 1954

There will be five eclipses during 1954, three of the Sun and two of the Moon. Of these five only the total eclipse of the Moon on the evening of January 18 will be seen by observers throughout the United States. The total eclipse of the Sun on June 30 and the partial eclipse of the Moon on July 15 will be visible only from certain parts of our country.

I. **An Annular Eclipse of the Sun, January 4, 1954.** This eclipse in any of its phases, partial or annular, is primarily an Antarctic affair except for observers in New Zealand and on the islands of the South Pacific, who will be able to see it as a partial eclipse.

II. **A Total Eclipse of the Moon, January 18, 1954.** This lunar eclipse on the evening of January 18th will be visible in its entirety throughout the United States. The Moon will start into the penumbral shadow of the Earth at 6.40 P.M. E.S.T. and into the umbral portion at 7.50 P.M. E.S.T. The Moon will be completely within the Earth's shadow at 9.17 P.M. E.S.T. and start leaving it at 9.47 P.M. E.S.T. It will be completely out of the umbral shadow at 11.14 P.M. E.S.T. and out of the penumbral shadow, marking the end of the eclipse, at 12.24 A.M. E.S.T. on the morning of January 19th.

III. **A Total Eclipse of the Sun, June 30, 1954.** Observers in the United States to the north and east of a line extending from Brownsville, Texas, northwest to Vancouver, B.C., will see the partial phase of this eclipse in one degree or more. For observers along the line described the eclipse will be ending as the sun rises. Between this line and a second running northwestward from Wilmington, N.C., to the northeastern tip of Minnesota, along which the eclipse will begin at sunrise, observers will find the eclipse already partly along as the sun comes above the horizon. Only observers in the northeasterly part of the United States will then have the sun above the horizon from the time the eclipse begins, while observers in the southwest and along the Pacific Coast will miss the eclipse, since it will occur during the pre-dawn hours.

Only the privileged few in the United States will see the total phase. These observers will be inside a strip of land about 50 miles wide centered on a line which runs from just southwest of Yankton, N. D., northeastward through Hancock, Michigan, and on into western Ontario. For these observers, too, the eclipse will be a dawn to immediate post-dawn event.

IV. **A Partial Eclipse of the Moon, July 15, 1954.** Visibility of this eclipse from points in the United States is restricted to those in the Eastern Standard and Central Standard time belts, and even for these observers those parts of the eclipse to be seen will be in progress as the moon rises. The Moon will be deepest within the Earth's umbral shadow at 7.20 P.M. E.S.T. and will be completely outside this shadow at 8.31 P.M. E.S.T. It will be outside the penumbral shadow at 9.53 P.M. E.S.T.

The beginning of this eclipse will be visible generally in southern and western Asia, the extreme western part of Australia, the Indian Ocean, Antarctica, Europe, Africa, the Atlantic Ocean and South America. The ending will be visible generally in southwestern Asia, the western part of the Indian Ocean, Europe, Africa, Antarctica, the Atlantic Ocean, South America, the southeastern part of the Pacific Ocean, and, as noted above, eastern and southeastern North America.

V. **An Annular Eclipse of the Sun, December 25, 1954.** The area of visibility of this eclipse centers in the South Indian Ocean. It embraces Australia, Borneo, Malaya, New Guinea, the Philippines, Indo-China and Siam near its easterly edge, southern Africa and Madagascar near its westerly boundary, and a portion of Antarctica near its southern limit. But, in its annular rather than its partial phases, it will be visible only from a narrow strip of the earth's surface which crosses land only near the southern tip of Africa, where the annular phase would be visible shortly after sunrise, to Timor in the Dutch East Indies, where the annular phase will be visible just before sunset.

EARTH IN PERIHELION AND APHELION, 1954

The Earth will be in Perihelion on January 2, 3 A.M., distant from the Sun 91,348,000 miles. The Earth will be in Aphelion on July 3, 3 P.M., distant from the Sun 94,450,000 miles.

VENUS, MARS, JUPITER AND SATURN 1954.

Below are given the time of the rising or setting of the Planets named, on the first, eleventh and twenty-first of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see page 100.

1954		VENUS h m	Key		MARS h m	Key		JUPITER h m	Key		SATURN h m	Key
JANUARY	1st	rises 6 48 A.M.	O	rises	2 07 A.M.	L	sets	5 47 A.M.	O	rises	2 07 A.M.	L
"	11th	" 7 01 A.M.	O	"	1 59 A.M.	L	"	5 03 A.M.	O	"	1 31 A.M.	L
"	21st	rises 7 07 A.M.	N	"	1 49 A.M.	M	"	4 20 A.M.	O	"	12 54 A.M.	L
FEBRUARY	1st	sets 4 57 P.M.	E	rises	1 39 A.M.	M	sets	3 34 A.M.	O	rises	12 13 A.M.	L
"	11th	" 5 23 P.M.	F	"	1 28 A.M.	N	"	2 54 A.M.	O	"	11 30 P.M.	L
"	21st	" 5 48 P.M.	G	"	1 16 A.M.	N	"	2 16 A.M.	O	"	10 51 P.M.	L
MARCH	1st	sets 6 08 P.M.	H	rises	1 06 A.M.	N	sets	1 47 A.M.	O	rises	10 19 P.M.	L
"	11th	" 6 33 P.M.	I	"	12 52 A.M.	N	"	1 11 A.M.	O	"	9 38 P.M.	L
"	21st	" 6 58 P.M.	J	"	12 36 A.M.	O	"	12 37 A.M.	O	"	8 56 P.M.	L
APRIL	1st	sets 7 25 P.M.	K	rises	12 16 A.M.	O	sets	12 00 M.	O	rises	8 10 P.M.	L
"	11th	" 7 51 P.M.	L	"	11 56 P.M.	O	"	11 25 P.M.	O	"	7 27 P.M.	L
"	21st	" 8 16 P.M.	M	"	11 31 P.M.	O	"	10 54 P.M.	O	rises	6 44 P.M.	L
MAY	1st	sets 8 41 P.M.	N	rises	11 05 P.M.	O	sets	10 23 P.M.	O	sets	4 50 A.M.	G
"	11th	" 9 04 P.M.	O	"	10 36 P.M.	O	"	9 52 P.M.	O	"	4 08 A.M.	G
"	21st	" 9 23 P.M.	O	"	10 03 P.M.	O	"	9 22 P.M.	O	"	3 27 A.M.	G
JUNE	1st	sets 9 37 P.M.	O	rises	9 21 P.M.	P	sets	3 49 P.M.	O	sets	2 42 A.M.	G
"	11th	" 9 43 P.M.	O	"	8 38 P.M.	P	"	8 20 P.M.	O	"	2 01 A.M.	G
"	21st	" 9 42 P.M.	N	rises	7 50 P.M.	P	sets	7 50 P.M.	O	"	1 21 A.M.	G
JULY	1st	sets 9 36 P.M.	M	sets	3 20 A.M.	B	rises	4 09 A.M.	C	sets	12 41 A.M.	G
"	11th	" 9 25 P.M.	L	"	2 27 A.M.	A	"	3 41 A.M.	C	"	12 01 A.M.	G
"	21st	" 9 11 P.M.	K	"	1 39 A.M.	A	"	3 12 A.M.	C	"	11 18 P.M.	G
AUGUST	1st	sets 8 53 P.M.	J	sets	12 54 A.M.	A	rises	2 41 A.M.	C	sets	10 36 P.M.	G
"	11th	" 8 34 P.M.	I	"	12 20 A.M.	B	"	2 12 A.M.	C	"	9 58 P.M.	G
"	21st	" 8 14 P.M.	G	"	11 53 P.M.	B	"	1 42 A.M.	D	"	9 20 P.M.	G
SEPTEMBER	1st	sets 7 52 P.M.	F	sets	11 26 P.M.	B	rises	1 09 A.M.	D	sets	8 38 P.M.	F
"	11th	" 7 30 P.M.	E	"	11 09 P.M.	B	"	12 39 A.M.	D	"	8 01 P.M.	F
"	21st	" 7 09 P.M.	D	"	10 55 P.M.	B	"	12 08 A.M.	D	"	7 24 P.M.	F
OCTOBER	1st	sets 6 45 P.M.	C	sets	10 45 P.M.	C	rises	11 32 P.M.	D	sets	6 48 P.M.	F
"	11th	" 6 19 P.M.	C	"	10 38 P.M.	C	"	10 59 P.M.	D	"	6 11 P.M.	F
"	21st	" 5 47 P.M.	B	"	10 32 P.M.	D	"	10 24 P.M.	D	"	5 35 P.M.	F
NOVEMBER	1st	sets 5 03 P.M.	C	sets	10 28 P.M.	D	rises	9 45 P.M.	D	sets	4 55 P.M.	F
"	11th	sets 4 18 P.M.	C	"	10 25 P.M.	E	"	9 07 P.M.	D	rises	5 56 A.M.	L
"	21st	rises 5 59 A.M.	N	"	10 23 P.M.	E	"	8 27 P.M.	D	"	5 23 A.M.	L
DECEMBER	1st	rises 4 53 A.M.	M	sets	10 21 P.M.	F	rises	7 46 P.M.	D	rises	4 49 A.M.	L
"	11th	" 4 10 A.M.	L	"	10 19 P.M.	G	"	7 04 P.M.	D	"	4 15 A.M.	L
"	21st	" 3 47 A.M.	L	"	10 17 P.M.	G	"	6 20 P.M.	D	"	3 41 A.M.	L
"	31st	rises 3 37 A.M.	M	sets	10 15 P.M.	H	rises	5 34 P.M.	D	rises	3 07 A.M.	M

MORNING AND EVENING STARS, 1954

(Also see Page 76)

(A Planet is called Morning Star when it is above the horizon at sunrise, and Evening Star when it is above the horizon at sunset. More precisely, it is a Morning Star when it is less than 180° west of the Sun in right ascension and Evening Star when it is less than 180° east. When the Planet is near conjunction or opposition, the distinction is unimportant.)

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations about February 13, June 9 and October 6. On these dates it will set 1 h. 34 m., 1 h. 49 m., and 0 h. 45 m., respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations about March 28, July 27, and November 14, on which dates it will rise 0 h. 54 m., 1 h. 28 m., and 1 h. 43 m., respectively, before sunrise.

Venus is to be found in the eastern sky before sunrise until January 29, when it comes to conjunction with the Sun. It again becomes a Morning Star on November 15, as it passes through conjunction again, and will grace the eastern sky before sunrise thence to the end of the year. From January 29 to November 15 Venus will be an Evening Star seen in the western sky after sunset.

Mars too is a Morning Star until June 24 when it reaches opposition. Thereafter it joins Venus as an Evening Star, but remains an Evening Star until year's end. Mars will be at its greatest brilliance during the month of July.

Jupiter is an Evening Star for the first half of the year, until June 30, when it reaches conjunction. Thereafter it is to be found as a Morning Star in the eastern sky before sunrise for the remainder of the year.

Saturn is a Morning Star along with Venus and Mars at the year's beginning and remains so until April 26. From that date until November 4 it will be an Evening Star, visible after sunset. From November 4 until the end of the year, Saturn returns to the eastern sky to be visible before sunrise as a Morning Star.

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1955

JANUARY.							FEBRUARY.							MARCH.							APRIL.									
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30	31	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MAY.							JUNE.							JULY.							AUGUST.									
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.									
-	4	5	6	7	8	1	2	3		2	3	4	5	6	7	1	2	3	4	5		4	5	6	7	8	9	1	2	3
11	12	13	14	15	16	17	10		9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	
18	19	20	21	22	23	24			16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	
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LAST WINTER'S WEATHER

(Nov. and Dec. 1952—Jan. Feb. and March, 1953)

From the middle of December on, Abe Weatherise's forecast of last year's swinkful and heavy timed winter was well nigh perfect. For the period November 1 through December 15 his expected departures from normal occurred in Northern New England rather than in and around Boston. The "violent storm in March" which he predicted came in the form of rain (2½ to 4 inches of it) on the 30th—with a preamble to this of about 1½ inches within his exact dates. Had these storms been of snow they'd have attracted more notice.

Few forecasters, if any, foresaw, the way Abe did, the rains of April and May and none at all called the turn as closely as he did on the Worcester Tornado with his forecast of a "Bad Squall and that's not all"—June 1st through 7th. In brief, last winter, Old Farmer's Almanac in hand, you'd have had all the experts out-guessed a mile.

NEXT WINTER'S WEATHER

(Nov. and Dec. 1953—Jan., Feb. and March, 1954)

"TURBULENT, ERRATIC, MANY STORMS OF RAIN, SNOW, and SLEET." N.B. The considered opinion of many authorities that winters are growing milder will not be exemplified in next winter's weather.

NOVEMBER: At least one spanking northeast storm along the Eastern seaboard during the first two weeks. Mild and fine then for one week. Cold and some snow rest of the month.

DECEMBER: Raw and dull all month with nothing very exciting or harmful.

JANUARY: First ten days will bring cold storms. Then it will be windy and boisterous until the January Thaw about the 23rd. Last week will be bitter cold.

FEBRUARY: Cold continues for one week. Heavy snowstorm expected between the 11th and the 17th. Last two weeks milder but no three good days in a row.

MARCH: First two weeks really bad, blowy and cold, and wet. False signs of Spring for a week after that—then a frigid spell from the 27th to 31st.

During the first ten days of April watch out for the storm of the year in rain or snow or both all over the United States.

HOLIDAY WEEKENDS

New Year's Day (on a Friday) will be cold but clear. Lincoln's Birthday Feb. 12th, falls on a Friday and Washington's, the 22nd, on a Monday. Both offer fine snow conditions in the north country. April 19th (Monday) mild, Decoration Day (May 30, Sunday) rainy; June 17, Thursday, Bunker Hill Day, windy and clear; July 4, Sunday, rain; Labor Day, Monday, Sept. 6, cool and nice all weekend; Columbus Day, Oct. 12, clear; Nov. 11, Thursday, Armistice Day, unsettled; Thanksgiving Day, Thursday, November 25th, dull with rain or snow threatening; Christmas, Saturday, clear and white in the snow country.

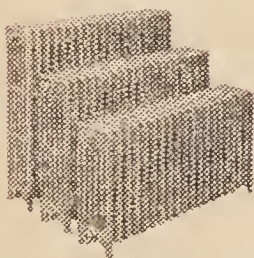
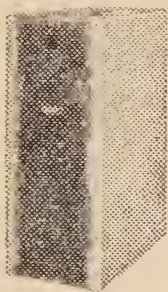
It will be noted that in these holiday weekends in 1954, only four offer the three day vacation weekend.



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HOW TO USE THIS ALMANAC

The following Calendar Pages (12-35) have remained practically unchanged in format since the first issue in 1793. Those not familiar with the signs, abbreviations, etc., should realize that the understanding of this time-honored format is easily come by—and contains for the year 1954: the angle of the sun's declination, the times of the change of the moon's phases, sunrise, sunset, day's length, sun dial adjustments, high tides, moon rise, moon set, moon southing, moon's place in the heavens, and the moon's age—for every day in the year. On the right hand pages are expressed, by means of the symbols explained below, the relative positions during the year of the eleven planets including our sun and moon; daily tide heights, and in italic type, coursing down just to the left of the Farm Calendar, the weather which may be expected for the days which the italic sentence covers. On these right hand pages are also indicated all the important religious Holy Days of all faiths—national and state holidays—historic dates—and advice as to when the sap starts to run, birds, return, etc.

The Moon Signs used by many for planting are given in the next to last column of the left hand pages. Abbreviations used in this column are explained below and correspond to the positions on the Moon Sign Man represented on page 37. In the last column of the Planting Table which follows these Calendar Pages on page 38 you will find the dates which moon addicts use as most favorable for planting.

For the adjustment of the times given, to those of your locality turn to page 100. Move this weather forecast back one day for each time zone West of Eastern Time Zone.

CALENDAR PAGE EXPLANATIONS AND SIGNS

On the right hand pages you will find every now and again the symbols given in Tables 1 and 2 conjoined in groups of three to give you what is happening in the heavens. See Abbreviations and Definitions on page 108. Example: $\odot \circ \odot$ on page 23 opposite June 24 means Mars and the Sun are on that day in opposition.

1. Names and Characters of the Principal Planets.

$\odot$ The Sun.	$\circ$ Venus.	♃ Jupiter.	♆ Neptune.
$\circ$ The Moon.	$\oplus$ The Earth.	♄ Saturn.	♇ Pluto.
$\circ$ Mercury.	♂ Mars.	♅ or ♁ Uranus.	

2. Names and Characters of the Aspects.

$\circ$ Conjunction, or in the same degree.	$\odot$ Dragon's Head, or Ascending Node.
$\square$ Quadrature, 90 degrees.	$\circ$ Dragon's Tail, or Descending Node.
$\circ$ Opposition, or 180 degrees.	

3. Names, Abbreviations and Characters of the Signs of the Zodiac.

1. ♈ Aries, head. ARI	5. ♌ Leo, heart. LEO	9. ♐ Sagittarius, thighs. SGR
2. ♉ Taurus, neck. TAU	6. ♍ Virgo, belly. VIR	10. ♑ Capricornus, knees. CAP
3. ♊ Gemini, arms. G'M	7. ♎ Libra, reins. LIB	11. ♒ Aquarius, legs. AQR
4. ♋ Cancer, breast. CNC	8. ♏ Scorpio, secrets. SCO	12. ♓ Pisces, feet. PSC

Consult page 37 for Zodiacal Superstitions

4. Chronological Cycles for 1954.

Golden Number 17	Solar Cycle 3	Roman Indiction 7
Epaet. 26 (25)	Dominical Letter C	Year of Julian Period 6667

Movable Feasts and Fasts for 1954.

Septuagesima Sun. Feb. 14	Good Friday Apr. 16	Whitsunday June 6
Shrove Sunday Feb. 28	Easter Sunday Apr. 18	Trinity Sunday June 13
Ash Wednesday Mar. 3	Low Sunday Apr. 25	Corpus Christi June 17
1st Sun. in Lent Mar. 7	Rogation Sun. May 23	1st Sunday in Advent Nov. 28
Palm Sunday Apr. 11	Ascension Day May 27	

THE SEASONS, 1954

Eastern Standard Time

Winter Solstice (Winter, 1953),	December 21, 10.32 P.M.—	Sun enters Capricornus, ♑
Vernal Equinox (Spring, 1954),	March 20, 10.54 P.M.—	" " Aries, ♈
Summer Solstice (Summer),	June 21, 5.55 P.M.—	" " Cancer, ♋
Autumnal Equinox (Autumn),	September 22, 8.56 A.M.—	" " Libra, ♎
Winter Solstice (Winter),	December 22, 4.25 A.M.—	" " Capricornus, ♑

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

Add 1 hr April 25, (deduct it Sept. 26) for Daylight Saving Time

1954]

JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days. 0 /			Days. 0 /			Days. 0 /			Days. 0 /			Days. 0 /		
	1	23s.01	7	22 23	13	21 29	19	20 21	25	18 58					
	2	22 55	8	22 15	14	21 19	20	20 08	26	18 43					
	3	22 50	9	22 07	15	21 08	21	19 55	27	18 28					
	4	22 44	10	21 58	16	20 57	22	19 41	28	18 12					
	5	22 37	11	21 49	17	20 45	23	19 27	29	17 57					
	6	22 30	12	21 39	18	20 33	24	19 12	30	17 40					

● New Moon, 4th day, 9 h. 21 m., evening, W.

▷ First Quarter, 11th day, 7 h. 22 m., evening, W.

○ Full Moon, 18th day, 9 h. 37 m., evening, E.

◁ Last Quarter, 26th day, 10 h. 28 m., evening; E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

RECAPITULATES REFERENCE TO CORRECTIONS TABLE, PAGES 10 THROUGH 15															
Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun. Fast. m.	Full Sea, Boston. Morn. h. m.	Even. h. m.	☾ Rises. h. m.	☾ Key	☾ Souths. h. m.	☾'s Place	Moon's Age
1	1	Fr.	7 14	O	4 23	C	9 09	12	8	8 ³ / ₄	4 ^A _M 07	O	8 ^A _M 42	SCO	26
2	2	Sa.	7 14	O	4 24	C	9 10	12	8 ³ / ₄	9 ¹ / ₂	5 09	O	9 35	SGR	27
3	3	S.	7 14	O	4 25	C	9 11	11	9 ¹ / ₂	10 ¹ / ₄	6 ^A _M 07	P	10 31	SGR	28
4	4	M.	7 14	O	4 26	C	9 12	11	10 ¹ / ₄	11	sets	—	11 ^A _M 27	CAP	29
5	5	Tu.	7 13	O	4 26	D	9 13	10	11	11 ¹ / ₂	5 ^P _M 12	D	12 ^P _M 23	CAP	1
6	6	W.	7 13	N	4 27	D	9 14	10	11 ³ / ₄	—	6 26	E	1 17	AQR	2
7	7	Th.	7 13	N	4 28	D	9 16	9	0 ¹ / ₄	0 ¹ / ₂	7 40	G	2 09	AQR	3
8	8	Fr.	7 13	N	4 29	D	9 17	9	1	1 ¹ / ₄	8 54	H	2 59	PSC	4
9	9	Sa.	7 13	N	4 31	D	9 18	9	1 ³ / ₄	2 ¹ / ₄	10 07	I	3 48	PSC	5
10	10	S.	7 12	N	4 32	D	9 19	8	2 ³ / ₄	3	11 ^P _M 21	K	4 37	ARI	6
11	11	M.	7 12	N	4 33	D	9 21	8	3 ¹ / ₂	4	—	—	5 27	ARI	7
12	12	Tu.	7 12	N	4 34	D	9 22	7	4 ¹ / ₂	5	12 ^A _M 35	L	6 19	TAU	8
13	13	W.	7 11	N	4 35	D	9 23	7	5 ¹ / ₂	6	1 50	N	7 15	TAU	9
14	14	Th.	7 11	N	4 36	D	9 25	7	6 ¹ / ₂	7 ¹ / ₄	3 04	O	8 12	G'M	10
15	15	Fr.	7 11	N	5 37	D	9 27	6	7 ¹ / ₂	8 ¹ / ₄	4 14	P	9 12	G'M	11
16	16	Sa.	7 10	N	4 38	D	9 28	6	8 ¹ / ₂	9 ¹ / ₄	5 16	P	10 10	CNC	12
17	17	S.	7 10	N	4 39	D	9 30	6	9 ¹ / ₂	10 ¹ / ₄	6 ^A _M 08	O	11 06	CNC	13
18	18	M.	7 09	N	4 41	D	9 32	5	10 ¹ / ₄	11	rises	—	11 ^P _M 59	CNC	14
19	19	Tu.	7 09	N	4 42	D	9 33	5	11 ¹ / ₄	11 ³ / ₄	5 ^P _M 31	E	—	—	—
20	20	W.	7 08	N	4 43	D	9 35	5	—	0	6 38	I	12 ^A _M 47	LEO	15
21	21	Th.	7 07	N	4 44	D	9 37	4	0 ¹ / ₂	0 ¹ / ₂	7 42	H	1 33	LEO	16
22	22	Fr.	7 07	N	4 46	D	9 39	4	1	1 ¹ / ₄	8 44	I	2 15	VIR	17
23	23	Sa.	7 06	N	4 47	D	9 41	4	1 ³ / ₄	2	9 45	J	2 56	VIR	18
24	24	S.	7 05	N	4 48	D	9 43	4	2 ¹ / ₂	2 ³ / ₄	10 45	K	3 37	LIB	19
25	25	M.	7 04	N	4 49	E	9 45	3	3 ¹ / ₄	3 ¹ / ₂	11 ^P _M 46	L	4 17	LIB	20
26	26	Tu.	7 03	M	4 51	E	9 47	3	4	4 ¹ / ₄	—	—	5 00	LIB	21
27	27	W.	7 03	M	4 52	E	9 49	3	4 ³ / ₄	5 ¹ / ₄	12 ^A _M 48	M	5 44	SCO	22
28	28	Th.	7 02	M	4 53	E	9 52	3	5 ¹ / ₂	6 ¹ / ₄	1 51	N	6 32	SCO	23
29	29	Fr.	7 01	M	4 55	E	9 54	3	6 ¹ / ₂	7 ¹ / ₄	2 53	O	7 23	SGR	24
30	30	Sa.	7 00	M	4 56	E	9 56	2	7 ¹ / ₂	8	3 53	P	8 16	SGR	25
31	31	S.	6 59	M	4 57	E	9 58	2	8 ¹ / ₄	9	4 ^A _M 46	O	9 ^A _M 12	CAP	26

JANUARY hath 31 days.

[1954]



The silent land is listening for more,
And more, and more, and never will have done
With listening — this grave and ancient one
That now, at evening, gathers round my door,
In that large mind whose amplitude has grace
For all the suffering story of our race.

D.	M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.		Circumcision. ♂ in {9.0 Cold and	As a boy I always looked forward to January as the "sharp" winter month, for which December had been just a mild dress rehearsal. And it usually turned out that way. We measured the sharpness of the month by the amount of ice and the condition of the roads. I can see now the cutting of the black, thick ice—usually uncontaminated by frozen snow as a top layer. Just as in the Currier and Ives print, we used our oxen to get the ice up from the pond to the ice-house, where we packed it into the dry sawdust. How wonderfully that old ice-house smelled of the sawdust, and, I fancied, of the ice itself. But the bitter January wind shrieking in over the bowed heads of the oxen made it the coldest place in the world. Perhaps memories of my boyhood Januaries have magnified the sharpness of the cold, but I don't think so. Forgetting statistics, if I had any to refer to, I would say the amount of skating a boy can get on good January ice nowadays, and the skating we had in the old Januaries just speak for themselves. We didn't have to have outside rinks filled with artificial ice when I was a youngster. And the January thaw came right on time and didn't slop over into February or get slipped back into December. So be it. Here's to a good sharp, old-fashioned January. Make your resolutions and have a Happy New Year!
2	Sa.		Days have lengthened ♂ in {9.4 bold.	
3	C		one cock's stride ♂ in {9.4 bold.	
4	M.		2da. Ch. ♂ rides {9.7 2nd {6δh	
5	Tu.		♂♀♀ ♂♀♂ ♂♀♂ Ann. {10.1	
6	W.		Twelfth Take down ♂♀♂ {10.4	
7	Th.		Night Xmas greens ♂♀♂ {9.0 Storms of	
8	Fr.		Epiph. "Cruel, cold winter, 1857" {10.6 snow	
9	Sa.		Fifty Ft. Me. Cattle need salt {9.8 then	
10	C		Tide 1770 Hol. Tides {9.6 icy	
11	M.		1st Photograph La. {10.6 going,	
12	Tu.		9th — 1839 Civil War 1861 ♂♀♂ {10.4 drive	
13	W.		1st shot fired ♂♀♂ {10.0	
14	Th.		Civil War 1861 ♂♀♂ {10.0	
15	Fr.		1st S. a. Ep. ♂♀♂ {10.0	
16	Sa.		Plough Monday ♂♀♂ {9.6 slow!	
17	C		Newport, R. I. Tea Party — 1774 {10.0 Milder,	
18	M.		Spiders Predicted Tides {9.1 but	
19	W.		Great Freeze 1795 Tides {8.7	
20	Th.		St. Hilary coldest of year ♂♀♂ Sup. {10.0 windy	
21	Fr.		"There lies my (1827) ♂♀♂ Tides {10.2 and	
22	Sa.		poor father" ♂♀♂ runs {10.8 wilder.	
23	C		2nd S. a. Ep. ♂♀♂ high. {8.7	
24	M.		Total Eclipse ♂♀♂ Brink hold-up 1950 {10.5	
25	Tu.		Robt. E. Lee Hol. Tides {10.6 Blowy	
26	W.		Birthday So. Tides {9.2 and	
27	Th.		The Russian Flu, 1837 Tides {10.4 snowy.	
28	Fr.		Kai-Shek Res. 1949 ♂♀♂ Gr. Hel. Tides {9.3	
29	Sa.		If clear, good all year. Tides {9.8 January	
30	C		V. Mary married ♂♀♂ on Eq. Tides {9.3 thaw	
31	M.		3rd S. a. Ep. ♂♀♂ Tides {9.2 and	
32	C		Conversion St. Paul ♂♀♂ in Apo. Tides {9.0 raw.	
33	Tu.		♂♀♂ Tides {8.9 Hol. Ark. Storm	
34	W.		Cold all over 1939 ♂♀♂ Tides {8.7 on tap,	
35	Th.		Stat. in R. A. ♂♀♂ Tides {8.6 brings	
36	Fr.		♂♀♂ Sup. Tides {8.7 cold	
37	Sa.		♂♀♂ in F. D. R's Hol. Day Ky. {8.9	
38	C		rides low. ♂♀♂ Terr. storms Europe 1953 {9.3 snap.	

1954]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/
	1	17s.	07	7	15	19	13	13	22	19	11	18	25	9	06
	2	16	49	8	15	00	14	13	02	20	10	56	26	8	44
	3	16	32	9	14	41	15	12	41	21	10	34	27	8	22
	4	16	14	10	14	23	16	12	21	22	10	13	28	7	59
	5	15	56	11	14	02	17	12	00	23	9	51			
	6	15	38	12	13	42	18	11	39	24	9	29			

- New Moon, 3rd day, 10 h. 55 m., morning, E.
 D First Quarter, 10th day, 3 h. 29 m., morning, W.
 ○ Full Moon, 17th day, 2 h. 17 m., evening, E.
 ☾ Last Quarter, 25th day, 6 h. 29 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	☉ Sun Fast. m.	Full Sea, Boston. Morn Even	☾ Rises. h. m.	Key	☾ Souths. h. m.	☾ Place	☾'s	☾'s Moon's Age
32	1	M.	6 58	M	4 58	E	10 01	2	9 $\frac{1}{4}$	9 $\frac{3}{4}$	5 ^A _M 33	O	10 ^A _M 08	CAP	28
33	2	Tu.	6 57	M	5 00	E	10 03	2	10	10 $\frac{1}{2}$	6 ^A _M 13	N	11 04	AQR	29
34	3	W.	6 56	M	5 01	E	10 05	2	10 $\frac{3}{4}$	11 $\frac{1}{4}$	sets	—	11 ^A _M 58	AQR	0
35	4	Th.	6 55	M	5 02	E	10 08	2	11 $\frac{1}{2}$	—	6 ^P _M 36	G	12 ^P _M 50	AQR	1
36	5	Fr.	6 54	M	5 04	E	10 10	2	0	0 $\frac{1}{4}$	7 51	I	1 41	PSC	2
37	6	Sa.	6 52	M	5 05	E	10 13	2	0 $\frac{3}{4}$	1	9 07	J	2 31	ARI	3
38	7	S.	6 51	M	5 06	E	10 15	2	1 $\frac{1}{2}$	2	10 24	L	3 23	ARI	4
39	8	M.	6 50	L	5 08	F	10 18	2	2 $\frac{1}{4}$	2 $\frac{3}{4}$	11 ^P _M 40	M	4 16	TAU	5
40	9	Tu.	6 49	L	5 09	F	10 20	1	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	5 11	TAU	6
41	10	W.	6 48	L	5 10	F	10 23	1	4	4 $\frac{3}{4}$	12 ^A _M 55	N	6 08	TAU	7
42	11	Th.	6 46	L	5 11	F	10 25	1	5	5 $\frac{3}{4}$	2 06	O	7 06	G'M	8
43	12	Fr.	6 45	L	5 13	F	10 28	1	6 $\frac{1}{4}$	7	3 10	P	8 04	G'M	9
44	13	Sa.	6 44	L	5 14	F	10 30	1	7 $\frac{1}{4}$	8	4 04	P	8 59	CNC	10
45	14	S.	6 42	L	5 15	F	10 33	1	8 $\frac{1}{4}$	9	4 49	O	9 52	CNC	11
46	15	M.	6 41	L	5 17	F	10 36	2	9 $\frac{1}{4}$	10	5 25	N	10 42	LEO	12
47	16	Tu.	6 40	L	5 18	F	10 38	2	10	10 $\frac{3}{4}$	5 ^A _M 55	M	11 ^P _M 28	LEO	14
48	17	W.	6 38	L	5 19	F	10 41	2	10 $\frac{3}{4}$	11 $\frac{1}{4}$	rises	—	—	—	—
49	18	Th.	6 37	L	5 20	F	10 44	2	11 $\frac{1}{2}$	—	6 ^P _M 31	H	12 ^A _M 11	VIR	15
50	19	Fr.	6 35	L	5 22	F	10 46	2	0	0 $\frac{1}{4}$	7 32	J	12 52	VIR	16
51	20	Sa.	6 34	L	5 23	G	10 49	2	0 $\frac{1}{2}$	0 $\frac{3}{4}$	8 33	K	1 33	VIR	17
52	21	S.	6 32	K	5 24	G	10 52	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	9 34	L	2 14	LIB	18
53	22	M.	6 31	K	5 26	G	10 55	2	1 $\frac{3}{4}$	2 $\frac{1}{4}$	10 36	M	2 55	LIB	19
54	23	Tu.	6 29	K	5 27	G	10 57	2	2 $\frac{1}{2}$	3	11 ^P _M 38	N	3 39	SCO	20
55	24	W.	6 28	K	5 28	G	11 00	2	3 $\frac{1}{4}$	3 $\frac{3}{4}$	—	—	4 25	SCO	21
56	25	Th.	6 26	K	5 29	G	11 03	3	4	4 $\frac{1}{2}$	12 ^A _M 39	O	5 13	SGR	22
57	26	Fr.	6 25	K	5 30	G	11 06	3	4 $\frac{3}{4}$	5 $\frac{1}{2}$	1 39	P	6 04	SGR	23
58	27	Sa.	6 23	K	5 32	G	11 09	3	5 $\frac{3}{4}$	6 $\frac{1}{2}$	2 34	O	6 58	SGR	24
59	28	S.	6 21	K	5 33	G	11 11	3	6 $\frac{3}{4}$	7 $\frac{1}{2}$	3 ^A _M 23	O	7 ^A _M 53	CAP	25



I pray this wind is bearing on its back
The seed of many flowers to be sown
In many barren place, for their lack;
In stricken acres where no flower has flared
Its tiny splendor since the rocks were young;
And inner acres where the breast is bared
Unto this wind, with a small human sound,
Like "Here . . . here, on this stony ground."

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Gales 1876, 1953 37° below 1851	Tides { 9.8 8.4 <i>Bring</i>
2	Tu.	Purification Groundhog Day	{ 10.2 9.0 <i>out</i>
3	W.	Four Immortal Chaplains 1943	♂♀ Tides { 10.6 9.6 <i>your</i>
4	Th.	Boston Harbor ♂♀	Tides { 10.9 — <i>mitten</i> s
5	Fr.	Frozen ♂ on 1844 Eq.	Tides { 10.1 11.0 <i>even</i>
6	Sa.	25 ft. Snow Drifts 1717	♂ in { 10.4 Peri. { 10.9 <i>for the</i>
7	C	5th S. a. Ep. Tides	{ 10.6 10.6 <i>kittens.</i>
8	M.	Am. Boy Scouts Founded 1910	Tides { 10.6 10.6 <i>A shame</i>
9	Tu.	♀ in ♂	Tides { 10.5 9.4 <i>this</i>
10	W.	Canada is Britain's 1763	♂ Stat. { 10.2 in R.A. { 8.8 <i>rain.</i>
11	Th.	V. Mary seen at Lourdes, 1858	{ 9.9 8.8 <i>Everyone</i>
12	Fr.	Lincoln's Birthdays ♂♂	♂♂ runs { 9.7 high { 8.1
13	Sa.	Valentines Tomorrow ♀	Gr. El. Tides { 9.8 E. { 8.2 <i>shovels</i>
14	C	Sept. S. ♀	Peri. ♂♂ { 9.7 in { 8.4 <i>out</i>
15	M.	Calif. Sugar Pines Saved 1953	Tides { 9.9 8.7 <i>their</i>
16	Tu.	Silver Dollar Legal, 1878	Tides { 10.0 9.0
17	W.	Bath, Me. Inc. 1781	h Stat. { 10.0 in R.A. { 9.3 <i>hovels.</i>
18	Th.	Auld Deer worst in year	Tides { 10.0 — <i>Milder</i>
19	Fr.	♀ Stat. ♂ on in R.A. Eq.	Tides { 9.5 9.8 <i>but</i>
20	Sa.	Nancy washed up at Nantasket 1927	Tides { 9.6 9.6 <i>watch</i>
21	C	Serag. S. ♀	Gr. Hel. { 9.6 Lat. S. { 9.2 <i>out,</i>
22	M.	Wash. B'dy. ♂♂	in { 9.6 Apo. { 8.9 <i>storms</i>
23	Tu.	Record Snow 1948 Record Tide 1723	♂ h c { 9.8 { 8.5 <i>still</i>
24	W.	Gr. Hel. Lat. N. ♂♀	Tides { 9.1 8.0 <i>about.</i>
25	Th.	Hudson Tubes 1908 ♂♂	♂♂ Tides { 8.9 7.7 <i>Rain</i>
26	Fr.	Spectacles Invented 1825	♂ rides Tides { 8.7 low { 7.5 <i>for</i>
27	Sa.	Spears in N. E. Heavens 1667	Tides { 8.7 7.5 <i>sure,</i>
28	C	Quin. S. Shrove Sunday	Tides { 8.9 7.8 <i>then</i>

Misfortune has the strange power of creating strength and activity through the very things it has destroyed. Afflictions can find their counterparts in new abilities, ingenuity to adapt to new situations and a steadfast perseverance to pursue to the full all that life still offers.

Sermons on adversity or its rewards are wasted words, if they are not telling of true things. Adversity has no rewards for the crippled, the terribly wounded and maimed and blind except as these rewards are won through their agony and struggle. But the world of industry—business—the professions—has its thousands of gallant souls who are stronger for adversity, if not more able.

Helen Keller, of course, remains the bright beacon of hope for all afflicted. Despite Milton's blindness—or because of it—we have immortal verse. And we think of a blind farmer, Miss Alice Haines, who, after years of editorial work—and sight—turned to farming when she couldn't see. She does everything for herself on her farm—even to her own plowing—is the consultant of agricultural experts—and makes an excellent living.

Loss of limb and paralysis is a terrible handicap, but we know of a dozen farmers who are either partially paralyzed or have lost limbs, and yet they go about their work, successful men in a business that needs not just arms and legs but brains and will. And those they have.

Witchcraft prevailed Salem, Mass. now through September, 1692, victimizing twenty humans and two dogs.

1954]

MARCH, THIRD MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/
	1	7s.	35	7	5	17	13	2	56	19	0	34	25	1	48
	2	7	12	8	4	53	14	2	32	20	0s.	10	26	2	12
	3	6	49	9	4	30	15	2	08	21	0N.	14	27	2	35
	4	6	26	10	4	06	16	1	45	22	0	37	28	3	59
	5	6	03	11	3	43	17	1	21	23	1	01	29	3	22
	6	5	40	12	3	19	18	0	57	24	1	25	30	3	46

● New Moon, 4th day, 10 h. 11 m., evening, W.

☾ First Quarter, 11th day, 12 h. 51 m., evening, E.

○ Full Moon, 19th day, 7 h. 42 m., morning, W.

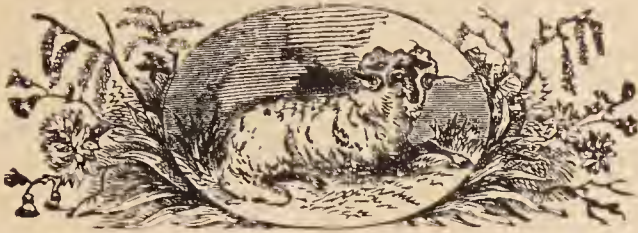
☾ Last Quarter, 27th day, 11 h. 14 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises.	Key	☉ Sets.	Key	Length of Days.	Sun. Past.	Full Sea, Boston.	☾ Rises.	Key	☾ Souths.	☾'s Place	☾'s Age
			h. m.		h. m.		h. m.	m.	Morn. Even.	h. m.		h. m.		
60	1	M.	6 20	K	5 34	G	11 14	3	7 ³ ₄	8 ¹ ₄	4 ^M 05	N	8 ^M 48	CAP 26
61	2	Tu.	6 18	K	5 35	G	11 17	3	8 ³ ₄	9 ¹ ₄	4 42	M	9 42	AQR 27
62	3	W.	6 17	K	5 37	G	11 20	4	9 ¹ ₂	10	5 ^M 13	L	10 35	AQR 28
63	4	Th.	6 15	K	5 38	G	11 23	4	10 ¹ ₄	10 ³ ₄	sets	—	11 ^M 27	PSC 29
64	5	Fr.	6 13	J	5 39	H	11 26	4	11 ¹ ₄	11 ¹ ₂	6 ^P 43	J	12 ^P 19	PSC 1
65	6	Sa.	6 12	J	5 40	H	11 28	4	—	0	8 02	K	1 12	ARI 2
66	7	S.	6 10	J	5 41	H	11 31	5	0 ¹ ₄	0 ³ ₄	9 21	M	2 06	ARI 3
67	8	M.	6 08	J	5 43	H	11 34	5	1	1 ¹ ₂	10 40	N	3 01	TAU 4
68	9	Tu.	6 07	J	5 44	H	11 37	5	2	2 ¹ ₂	11 ^P 55	O	4 00	TAU 5
69	10	W.	6 05	J	5 45	H	11 40	5	2 ³ ₄	3 ¹ ₂	—	—	5 00	G'M 6
70	11	Th.	6 03	J	5 46	H	11 43	6	3 ³ ₄	4 ¹ ₂	1 ^M 02	P	5 59	G'M 7
71	12	Fr.	6 02	J	5 47	H	11 46	6	4 ³ ₄	5 ¹ ₂	2 01	P	6 56	CNC 8
72	13	Sa.	6 00	J	5 48	H	11 49	6	6	6 ³ ₄	2 48	O	7 49	CNC 9
73	14	S.	5 58	J	5 50	H	11 51	6	7	7 ³ ₄	3 27	N	8 39	LEO 10
74	15	M.	5 57	J	5 51	H	11 54	7	8	8 ³ ₄	3 58	M	9 25	LEO 11
75	16	Tu.	5 55	I	5 52	I	11 57	7	9	9 ¹ ₂	4 24	L	10 09	LEO 12
76	17	W.	5 53	I	5 53	I	12 00	7	9 ³ ₄	10 ¹ ₄	4 48	K	10 50	VIR 13
77	18	Th.	5 51	I	5 54	I	12 03	8	10 ¹ ₂	10 ³ ₄	5 ^M 10	I	11 ^P 31	VIR 14
78	19	Fr.	5 50	I	5 55	I	12 06	8	11 ¹ ₄	11 ¹ ₂	rises	—	—	—
79	20	Sa.	5 48	I	5 57	I	12 09	8	11 ³ ₄	—	7 ^P 25	L	12 ^M 11	LIB 15
80	21	S.	5 46	I	5 58	I	12 12	8	0	0 ¹ ₄	8 26	M	12 53	LIB 16
81	22	M.	5 44	I	5 59	I	12 14	9	0 ¹ ₂	1	9 28	N	1 36	SCO 17
82	23	Tu.	5 43	I	6 00	I	12 17	9	1 ¹ ₄	1 ³ ₄	10 29	O	2 21	SCO 18
83	24	W.	5 41	I	6 01	I	12 20	9	2	2 ¹ ₄	11 ^P 28	O	3 08	SCO 19
84	25	Th.	5 39	I	6 02	I	12 23	10	2 ¹ ₂	3 ¹ ₄	—	—	3 58	SGR 20
85	26	Fr.	5 37	I	6 03	I	12 26	10	3 ¹ ₄	4	12 ^M 24	O	4 49	SGR 21
86	27	Sa.	5 36	H	6 04	J	12 29	10	4 ¹ ₄	5	1 15	O	5 42	CAP 22
87	28	S.	5 34	H	6 06	J	12 32	11	5 ¹ ₄	6	1 59	O	6 36	CAP 23
88	29	M.	5 32	H	6 07	J	12 35	11	6 ¹ ₄	6 ³ ₄	2 36	N	7 28	AQR 24
89	30	Tu.	5 30	H	6 08	J	12 37	11	7 ¹ ₄	7 ³ ₄	3 09	M	8 20	AQR 25
90	31	W.	5 29	H	6 09	J	12 40	11	8 ¹ ₄	8 ³ ₄	3 ^M 38	K	9 ^M 12	AQR 26

MARCH hath 31 days.

[1954]



... And birches are a ghost-white shining, now,
Among the other trees, leafless and black;
One walks in woods, aimless, and slow, and slack,
For whom all aims are not worth thinking of;
And next rough bole and the next swelling bough
Are aim enough,
And he has lost his thought of turning back.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1 M.	David C. Swan D. 1935	♂♀♂ Inf. □♂♂ {9.8 8.3	Barnum said, "There's a sucker born every minute."
2 Tu.	Shrove Tues. Hol. Ala.	{9.8	And it is true that this interesting world is full of swindlers waiting for suckers. But it is also true that more individuals and businesses fail from lack of foresight than from swindlers (unless we call time and change the swindlers—and we might well do that).
3 W.	Mardi Gras Fla., La., Tex.	{9.0	Not so many years ago the Annapolis Valley in Nova Scotia was the envy of all fruit men. It could annually have sold its crop a half dozen times over. They just packed their barrels, rolled them out and took in the cash from their foreign customers. They didn't have any others—and didn't need them then.
4 Th.	Ash W. Iceberg Pat'l starts out	{10.3	Most of the Annapolis Valley Orchards have been bulldozed down now. The last war cut their foreign trade off as with a knife—and that trade never returned. They didn't have the variety of apples that could find an American outlet. They just hadn't had the foresight to prepare for a change of market.
5 Fr.	USS Cyclops Mystery 1918	♂♀♂ Tides {10.7 10.8	And then there were the days when all up through Maine and Canada folks were raising silver foxes and getting rich quick. Time moved on and styles changed. A fox pelt that brought \$250.00 brought \$10.00. To-day the north country is littered with the ruined pens of that luxury business. Nobody—except time and change—swindled anyone.
6 Sa.	Idea on begin Eq.	♂♀♂ Tides {11.0 10.8	
7 C.	Norwalk Chapel to Sea 1823	♂♀♂ Tides {11.1 10.9	
8 M.	1st S. L. Hol. Cal.	♂♀♂ Tides {11.2 10.5	
9 Tu.	Maple Sap starts	♂♀♂ Tides {11.2 10.5	
10 W.	1st Rec. Moon Eclipse Babylon 721 B.C.	Tides {11.0 9.9	
11 Th.	Ember Days 10, 12, 13.	Tides {10.7 9.2	
12 Fr.	Blizzard of 1888	♂♀♂ runs high Tides {10.2 8.6	
13 Sa.	St. Gregory	Tides {9.7 8.1	
14 C.	Stat. in R.A.	♂♀♂ Tides {9.8 8.0	
15 M.	2nd S. L.	Tides {9.2 8.1	
16 Tu.	Taxes due.	Hol. Tenn. Tides {9.2 8.5	
17 W.	14 Knights hanged, drawn and quartered 1323	Tides {9.3 8.8	
18 Th.	St. Patrick	Day equals night Tides {9.4 9.1	
19 Fr.	W. Simsbury, Ct. Down River 1801	♂♀♂ on Eq. {9.5 9.4	
20 Sa.	St. Jos. Swallows San Spring!	Juan Capistrano en-♂♂ ters {9.4 9.2	
21 C.	3rd S. L.	♂♀♂ Tides {9.7 9.0	
22 M.	Alger Hiss Prison 1951	♂♀♂ Tides {9.7 9.0	
23 Tu.	Polygamy Abol. 1882	Oysters are spawning Tides {9.6 8.7	
24 W.	247 Lb. Tarpon caught Mexico, 1938	Tides {9.5 8.4	
25 Th.	Lady Day	Tides {9.8 8.1	
26 Fr.	♂♀♂ Tides {9.1 7.3	reason.	
27 Sa.	Terr. storm 1830	♂♀♂ Stat. in R.A. Tides {8.9 7.3	
28 C.	4th S. L.	♂♀♂ Gr. El. W. Tides {8.9 7.9	
29 M.	Scott perished 1912	Tides {9.1 8.3	
30 Tu.	Hallelujah Victory 1430	♂♀♂ in Aph. Tides {9.4 8.9	
31 W.	The Black Thorn Winds blow	Tides {9.9 9.7	

1954]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1	4	N. 32	7	6	49	13	9	02	19	11	10	25	13	11
	2	4	55	8	7	12	14	9	24	20	11	30	26	13	30
	3	5	18	9	7	34	15	9	45	21	11	51	27	13	49
	4	5	41	10	7	56	16	10	07	22	12	11	28	14	08
	5	6	04	11	8	18	17	10	28	23	12	31	29	14	27
	6	6	27	12	8	40	18	10	49	24	12	51	30	14	46

● New Moon, 3rd day, 7 h. 25 m., morning, E.

▷ First Quarter, 10th day, 12 h. 5 m., morning, W.

○ Full Moon, 18th day, 12 h. 48 m., morning, W.

◁ Last Quarter, 25th day, 11 h. 57 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☾ Sets. h. m.	Key	Length of Days. h. m.	Sun. Morn. m.	Full Sea. Boston. Morn/Even h. h.	☾ Rises. h. m.	Key	☾ Souths. h. m.	D's Place	Moon's Age
91	1	Th.	5 27	H	6 10	J	12 43	12 9	9 ¹ / ₂	4 ^M 06	J	10 ^M 03	PSC	27
92	2	Fr.	5 25	H	6 11	J	12 46	12 10	10 ¹ / ₄	4 ^M 34	H	10 55	ARI	29
93	3	Sa.	5 24	H	6 12	J	12 49	12 10 ³ / ₄	11	sets	—	11 ^M 49	ARI	0
94	4	S.	5 22	H	6 14	J	12 52	13 11 ¹ / ₂	—	8 ^P 13	M	12 ^P 46	TAU	1
95	5	M.	5 20	H	6 15	J	12 54	13 0	0 ¹ / ₂	9 33	O	1 46	TAU	2
96	6	Tu.	5 18	H	6 16	J	12 57	13 0 ³ / ₄	1 ¹ / ₄	10 47	P	2 47	G'M	3
97	7	W.	5 17	H	6 17	J	13 00	14 1 ¹ / ₂	2 ¹ / ₄	11 ^P 51	P	3 49	G'M	4
98	8	Th.	5 15	G	6 18	K	13 03	14 2 ¹ / ₂	3 ¹ / ₄	—	—	4 48	CNC	5
99	9	Fr.	5 13	G	6 19	K	13 06	14 3 ¹ / ₂	4 ¹ / ₄	12 ^M 44	O	5 44	CNC	6
100	10	Sa.	5 12	G	6 20	K	13 09	14 4 ¹ / ₂	5 ¹ / ₄	1 26	N	6 36	CNC	7
101	11	S.	5 10	G	6 21	K	13 11	15 5 ¹ / ₂	6 ¹ / ₄	2 00	M	7 24	LEO	8
102	12	M.	5 08	G	6 23	K	13 14	15 6 ³ / ₄	7 ¹ / ₄	2 28	L	8 08	LEO	10
103	13	Tu.	5 07	G	6 24	K	13 17	15 7 ³ / ₄	8 ¹ / ₄	2 52	K	8 50	VIR	11
104	14	W.	5 05	G	6 25	K	13 20	15 8 ¹ / ₂	9	3 14	J	9 31	VIR	12
105	15	Th.	5 04	G	6 26	K	13 22	16 9 ¹ / ₂	9 ³ / ₄	3 35	I	10 11	LIB	13
106	16	Fr.	5 02	G	6 27	K	13 25	16 10	10 ¹ / ₄	3 56	G	10 52	LIB	14
107	17	Sa.	5 00	G	6 28	K	13 28	16 10 ³ / ₄	11	4 ^A 18	F	11 ^P 34	LIB	15
108	18	S.	4 59	G	6 29	K	13 31	16 11 ¹ / ₄	11 ¹ / ₂	rises	—	—	—	—
109	19	M.	4 57	G	6 30	K	13 33	17 —	0	8 ^P 21	N	12 ^M 18	SCO	16
110	20	Tu.	4 56	G	6 32	K	13 36	17 0	0 ¹ / ₂	9 21	O	1 06	SCO	17
111	21	W.	4 54	F	6 33	L	13 39	17 0 ³ / ₄	1 ¹ / ₄	10 18	O	1 54	SGR	18
112	22	Th.	4 52	F	6 34	L	13 41	17 1 ¹ / ₂	2	11 10	O	2 45	SGR	19
113	23	Fr.	4 51	F	6 35	L	13 44	17 2	2 ³ / ₄	11 ^P 55	O	3 37	SGR	20
114	24	Sa.	4 49	F	6 36	L	13 47	18 2 ³ / ₄	3 ¹ / ₂	—	—	4 29	CAP	21
115	25	S.	4 48	F	6 37	L	13 49	18 3 ³ / ₄	4 ¹ / ₂	12 ^M 34	N	5 21	CAP	22
116	26	M.	4 47	F	6 38	L	13 52	18 4 ³ / ₄	5 ¹ / ₄	1 07	M	6 11	AQR	23
117	27	Tu.	4 45	F	6 39	L	13 54	18 5 ³ / ₄	6 ¹ / ₄	1 37	L	7 01	AQR	24
118	28	W.	4 44	F	6 41	L	13 57	18 6 ³ / ₄	7 ¹ / ₄	2 04	K	7 51	PSC	25
119	29	Th.	4 42	F	6 42	L	13 59	18 7 ³ / ₄	8 ¹ / ₄	2 31	I	8 40	PSC	26
120	30	Fr.	4 41	F	6 43	L	14 02	19 8 ¹ / ₂	9	2 ^M 58	H	9 ^M 33	ARI	27



For all that winter stood,
Immaculate, austere
Destroyer, here,
See how the green and grave
Have what they had to save,
What in themselves was good.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	Th.	April 6 ☿ ☾ ☾ on Eq. {10.8 Fool {10.4	The countryman hears more than he realizes—and the good country sounds come to him year after year, pretty much in the same places and at the same times, made by his beasts or his machinery, or the wind in his old elms, or the birds and the wildlife that surround him. They are with him all ways. I think he could walk his acres at black midnight—and surely his barnyard—just by ear. His cattle moving in their stanchions—the whinny of his horses—the sleepy shifting of the fowls on their roosts:—these are his barnyard at night, the very knobs of his darkness, and he needs no light to reach out to them.
2	Fr.	Samson & Goliath toted 109 tons of cotton 1831 {10.7 Hay worth \$180 in {10.9	
3	Sa.	ton—N.H. 1817 ☾ Apo. {11.4	
4	C	Passion S. 6 ♀ ☾ {— of the	
5	M.	Cain born 8 in ☿ Year's lowest {11.6 Abel slain low tide A.M. {10.7	
6	Tu.	Fish Hawks at Greenport, N. Y. Tides {11.6 {10.2 year, far	
7	W.	Jesus Cruc. 6 ♀ ☾ ☾ runs {11.2 A.D. 30 high {9.6 and	
8	Th.	Petrarch crowned with Laurel 1341 Tides {10.7 {9.0 near.	
9	Fr.	March into Egypt ☐ ☉ ☉ ☿ ☾ ☾ ☾ ☾ ☾ ☾ {10.1 Underground Tides {9.5 Moon {8.2	
10	Sa.	Palm S. Tides {9.1 {8.2 really here,	
11	C	U. S. Snowstorm Hol. N. C. Tides {8.8 1841 {8.4 have	
12	M.	Jefferson Hol. Ala., Mo., Neh., Okla., Va. {8.8 Day {8.7 no	
13	Tu.	Geese coming north ☾ Eq. Tides {8.8 {9.0 fear.	
14	W.	Maundy Thursday 8 ♀ ☉ ☉ Tides {8.9 {9.3 Rains	
15	Th.	Good Fri. Luther saw Worms 1521 Tides {8.9 {9.5	
16	Fr.	6 ♀ ☾ ☾ in Apo Tides {9.0 {9.7 these	
17	Sa.	Easter Passover Underground Moon {8.9 {9.8	
18	C	Patriots' D. Me., Mass., N. C. {8.8 {9.3 days.	
19	M.	[19th 6 ♀ ☾ ☾ in ☉ ☿ Gr. Hel.] {8.7 {8.7	
20	Tu.	Tanana R. Ice out Hol. Tex. {9.8 May 5, 1954 {8.5	
21	W.	Scioto Massacre 1822 ☾ low Okla. Tides {9.7 {8.4	
22	Th.	Gluck played Harmonica 1746 6 ☿ ☾ ☾ {9.5 {8.2 light	
23	Fr.	133 lb. Wahoo caught 1933 Tides {9.4 {8.2 as a	
24	Sa.	Low S. Daylight Saving Time begins St. Mark {9.3 {8.8	
25	C	Fast Day N. H. Mem. Day South 8 ♀ ☉ ☉ Tides {9.2 {8.5	
26	M.	U. S. Flag over Tripoli 1804 Tides {9.3 {9.0 feather,	
27	Tu.	Aphrodisius carried his own cut off head to its grave ☾ Eq. {9.6 {9.6 good	
28	W.	A.D. 69 ☾ on {9.9 {10.8 planting	
29	Th.	Arbor Day Tides {10.2 {10.9 weather.	
30	Fr.		

Daylight Saving Time begins the 25th.

1954]

MAY, FIFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1	15	N.04	7	16	48	13	18	23	19	19	46	25	20	57
	2	15	22	8	17	05	14	18	37	20	19	58	26	21	07
	3	15	40	9	17	21	15	18	52	21	20	11	27	21	18
	4	15	57	10	17	37	16	19	06	22	20	23	28	21	27
	5	16	15	11	17	52	17	19	19	23	20	34	29	21	37
	6	16	32	12	18	08	18	19	33	24	20	46	30	21	46

- New Moon, 2nd day, 3 h. 22 m., evening, E.
- ☾ First Quarter, 9th day, 1 hr. 17 m., evening, E.
- Full Moon, 17th day, 4 h. 47 m., evening, E.
- ☾ Last Quarter, 25th day, 8 h. 49 m., morning, W.
- New Moon, 31st day, 11 h. 03 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	☉ Sun Fast.	Full Sea, Boston. Morn Even	☾ Rises. h. m.	☾ Key	☾ Souths. h. m.	☾ Place	☾'s Moon's Are
I 21	1	Sa.	4 39	F	6 44	L	14 04	19	9 $\frac{1}{2}$ 10	3 $\frac{A}{M}$ 27	F	10 $\frac{A}{M}$ 27	ARI	28
I 22	2	S.	4 38	F	6 45	I.	14 07	19	10 $\frac{1}{2}$ 10 $\frac{3}{4}$	sets	-	11 $\frac{A}{M}$ 26	TAU	29
I 23	3	M.	4 37	E	6 46	M	14 09	19	11 $\frac{1}{4}$ 11 $\frac{1}{2}$	8 $\frac{P}{M}$ 22	O	12 $\frac{P}{M}$ 27	TAU	1
I 24	4	Tu.	4 35	E	6 47	M	14 12	19	— 0 $\frac{1}{4}$	9 32	P	1 $\frac{A}{M}$ 30	G'M	2
I 25	5	W.	4 34	E	6 48	M	14 14	19	0 $\frac{1}{2}$ 1	10 32	O	2 33	G'M	3
I 26	6	Th.	4 33	E	6 49	M	14 16	19	1 $\frac{1}{4}$ 2	11 21	O	3 32	CNC	4
I 27	7	Fr.	4 32	E	6 50	M	14 19	19	2 $\frac{1}{4}$ 2 $\frac{3}{4}$	11 $\frac{P}{M}$ 59	N	4 28	CNC	5
I 28	8	Sa.	4 30	E	6 52	M	14 21	19	3 $\frac{1}{4}$ 3 $\frac{3}{4}$	—	-	5 19	LEO	6
I 29	9	S.	4 29	E	6 53	M	14 23	19	4 4 $\frac{3}{4}$	12 $\frac{A}{M}$ 30	L	6 05	LEO	7
I 30	10	M.	4 28	E	6 54	M	14 26	19	5 $\frac{1}{4}$ 5 $\frac{3}{4}$	12 55	K	6 48	VIR	8
I 31	11	Tu.	4 27	E	6 55	M	14 28	19	6 $\frac{1}{4}$ 6 $\frac{3}{4}$	1 19	J	7 30	VIR	9
I 32	12	W.	4 26	E	6 56	M	14 30	19	7 $\frac{1}{4}$ 7 $\frac{1}{2}$	1 40	I	8 10	VIR	10
I 33	13	Th.	4 25	E	6 57	M	14 32	19	8 8 $\frac{1}{2}$	2 01	H	8 51	LIB	11
I 34	14	Fr.	4 24	E	6 58	M	14 34	19	8 $\frac{3}{4}$ 9	2 23	G	9 32	LIB	12
I 35	15	Sa.	4 23	E	6 59	M	14 36	19	9 $\frac{1}{2}$ 9 $\frac{3}{4}$	2 47	F	10 16	SCO	13
I 36	16	S.	4 22	E	7 00	N	14 39	19	10 $\frac{1}{4}$ 10 $\frac{1}{4}$	3 $\frac{A}{M}$ 14	E	11 02	SCO	14
I 37	17	M.	4 21	D	7 01	N	14 41	19	10 $\frac{3}{4}$ 11	rises	-	11 $\frac{P}{M}$ 51	SCO	15
I 38	18	Tu.	4 20	D	7 02	N	14 43	19	11 $\frac{1}{2}$ 11 $\frac{1}{2}$	8 $\frac{P}{M}$ 13	O	—	—	—
I 39	19	W.	4 19	D	7 03	N	14 44	19	— 0 $\frac{1}{4}$	9 06	O	12 $\frac{A}{M}$ 41	SGR	16
I 40	20	Th.	4 18	D	7 04	N	14 46	19	0 $\frac{1}{4}$ 0 $\frac{3}{4}$	9 54	O	1 33	SGR	17
I 41	21	Fr.	4 17	D	7 05	N	14 48	19	1 1 $\frac{1}{2}$	10 34	N	2 26	CAP	18
I 42	22	Sa.	4 16	D	7 06	N	14 50	19	1 $\frac{3}{4}$ 2 $\frac{1}{4}$	11 09	M	3 17	CAP	19
I 43	23	S.	4 15	D	7 07	N	14 52	19	2 $\frac{1}{2}$ 3	11 $\frac{P}{M}$ 39	L	4 08	AQR	21
I 44	24	M.	4 14	D	7 08	N	14 53	19	3 $\frac{1}{4}$ 4	—	-	4 57	AQR	22
I 45	25	Tu.	4 14	D	7 09	N	14 55	19	4 $\frac{1}{4}$ 4 $\frac{3}{4}$	12 $\frac{A}{M}$ 06	K	5 45	PSC	23
I 46	26	W.	4 13	D	7 10	N	14 57	19	5 $\frac{1}{4}$ 5 $\frac{3}{4}$	12 32	J	6 33	PSC	24
I 47	27	Th.	4 12	D	7 11	N	14 58	19	6 $\frac{1}{4}$ 6 $\frac{3}{4}$	12 57	H	7 22	ARI	25
I 48	28	Fr.	4 12	D	7 11	N	15 00	19	7 $\frac{1}{4}$ 7 $\frac{3}{4}$	1 25	G	8 14	ARI	26
I 49	29	Sa.	4 11	D	7 12	N	15 01	18	8 $\frac{1}{4}$ 8 $\frac{1}{2}$	1 56	F	9 09	TAU	27
I 50	30	S.	4 10	D	7 13	N	15 03	18	9 $\frac{1}{4}$ 9 $\frac{1}{2}$	2 $\frac{A}{M}$ 32	D	10 08	TAU	28
I 51	31	M.	4 10	D	7 14	N	15 04	18	10 10 $\frac{1}{4}$	sets	-	11 $\frac{A}{M}$ 09	G'M	29



Tired of saying good-bye
To the vast, wheeling sky,
And being over-fond,
The field has spread a pond
To hold the intimate sky
Nearer and always by.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Philip & Kentucky James Derby Tides {10.4	May
2	C	2nda. E. in Perl. 6 ♀ C {10.5	
3	M.	Jacksonville Highest tide {10.5	showers
4	Tu.	Fire 1901 of spring {11.8	
5	W.	Moses on Mt. C 6 ♀ C Hol. {10.3	
6	Th.	Sinal 1491 B.C. 6 ♀ C R. I {10.8	
7	Fr.	runs high 6 ♀ C Tides {11.6	bring
8	Sa.	Adhesive Postage Stamps invented 1840 Tides {11.2	
9	C	Abe Lincoln conceived 1808 6 ♂ C Sup. {10.6	June
10	M.	♀ in 8 6 ♀ C Tides {10.0	
11	Tu.	3rdaf. E. Mother's Day {9.4	flowers.
12	W.	Maine lakes about open N.C.-S.C. Tides {8.9	Relax
13	Th.	St. Pankratus } The Three C on {8.4	the
14	Fr.	St. Liberatus } Chilly Saints Tides {8.4	sun
15	Sa.	♀ in Perl. Goswold Disc Cape Cod 1602 C Apo. Tides {8.4	and
16	C	Armed Forces Day 6 ♀ C {9.5	really
17	M.	4th S.a. E. 6 h C {8.5	have
18	Tu.	Lake Erie Flower Blow 1893 Moon Tides {8.5	fun.
19	W.	Apple Trees Blossom Tides {9.9	Sultry
20	Th.	1st Trip Fall River Line 1847 Rides {8.5	and
21	Fr.	Lindbergh's Hop 1927 N. C. Tides {9.9	hot
22	Sa.	Tornado N. H. 1814 6 ♂ C Tides {9.9	all
23	C	Nat'l Marine Day 6 ♀ C in Perl. Tides {9.8	over
24	M.	23rd Stat. in R.A. Minor Rogation Days 24, 25, 26. {9.6	the lot.
25	Tu.	1st Atomic Shell 1953 Tides {9.2	
26	W.	St. Louis Tornado 1896 C on Eq. Tides {9.5	Rain
27	Th.	Ascension Day Tides {10.2	
28	Fr.	Mt. Everest Conq. 1953 Tides {9.7	raises
29	Sa.	Empress of Ireland Sank 1914 Tides {9.8	
30	C	1st S.a. A. Memorial Day C Perl. {9.9	
31	M.	Dr. Kane Lost 1855 6 ♀ C Tides {10.0	Cain.

How could man live without water? Without it he would die. It is his food, or the maker of his food. Water he lives by—and fire, which is killed by water.

As I write this the thermometer stands in the high nineties. Even the birds have their mouths wide open and are crowding the overflow from the cow trough. And my collie has had his mud bath.

This old farm of ours is surrounded by water from the certain, everlasting springs that have been here for generations.

We still have the old well that the hand pump in the kitchen dragged water up from. Out behind the barn there is another hand-pumped well that has always filled the mossy trough. And by the ice house over yonder you can find the sweetest water in the world in the fourteen by fourteen open well, lined for all time with the great, grey stones from our New Hampshire pastures.

These old wells still serve. for they stand between us and our enemy, fire. In the barn is a wonderful machine for shooting water right over the top of the barn—and over our ehimney tops. We have only to drop down the great hose and start the simple motor that throws water on any fire that may sweep our tinder-dry barns and wipe out our home in mindless conflagration.

We live by the thoughtful, cool being of water. God bless it.

1954]

JUNE, SIXTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	22N.03	7	22 45	13	23 13	19	23 26	25	23 24
	2	22 11	8	22 51	14	23 16	20	23 26	26	23 22
	3	22 19	9	22 56	15	23 19	21	23 27	27	23 20
	4	22 26	10	23 01	16	23 21	22	23 27	28	23 17
	5	22 33	11	23 05	17	23 23	23	23 26	29	23 14
	6	22 39	12	23 09	18	23 25	24	23 25	30	23 11

☾ First Quarter, 8th day, 4 h. 13 m., morning, W.

☾ Full Moon, 16th day, 7 h. 06 m., morning, W.

☾ Last Quarter, 23rd day, 2 h. 46 m., evening, W.

● New Moon, 30th day, 7 h. 26 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☀ Rises. h. m.	☀ Key	☀ Sets. h. m.	☀ Key	Length of Days. h. m.	Sun Fast. h. m.	Full Sea, Boston. Morn/Even. h. h.	☾ Sets. h. m.	☾ Key	☾ Souths. h. m.	☾'s Place	Moon's Age	
152	1	Tu.	4 09	D	7 15	N	15 05	18	11 1 $\frac{1}{4}$	8 ^P _M 15	P	12 ^P _M 13	G'M	1	
153	2	W.	4 09	D	7 16	N	15 07	18	11 3 $\frac{3}{4}$	9 10	O	1 16	CNC	2	
154	3	Th.	4 08	C	7 16	O	15 08	18	0 1 $\frac{1}{4}$	0 3 $\frac{3}{4}$	9 53	N	2 14	CNC	3
155	4	Fr.	4 08	C	7 17	O	15 09	18	1	1 3 $\frac{3}{4}$	10 28	M	3 08	LEO	4
156	5	Sa.	4 08	C	7 18	O	15 10	17	1 3 $\frac{3}{4}$	2 1 $\frac{1}{2}$	10 57	L	3 58	LEO	5
157	6	S.	4 07	C	7 18	O	15 11	17	2 3 $\frac{3}{4}$	3 1 $\frac{1}{2}$	11 21	K	4 43	LEO	6
158	7	M.	4 07	C	7 19	O	15 12	17	3 3 $\frac{3}{4}$	4 1 $\frac{1}{4}$	11 ^P _M 44	I	5 26	VIR	7
159	8	Tu.	4 07	C	7 20	O	15 13	17	4 1 $\frac{1}{2}$	5 1 $\frac{1}{4}$	—	—	6 07	VIR	8
160	9	W.	4 07	C	7 20	O	15 14	17	5 1 $\frac{1}{2}$	6	12 ^A _M 05	H	6 48	LIB	9
161	10	Th.	4 06	C	7 21	O	15 14	17	6 1 $\frac{1}{2}$	7	12 26	G	7 29	LIB	10
162	11	Fr.	4 06	C	7 21	O	15 15	16	7 1 $\frac{1}{4}$	7 3 $\frac{3}{4}$	12 49	F	8 12	SCO	11
163	12	Sa.	4 06	C	7 22	O	15 16	16	8 1 $\frac{1}{4}$	8 1 $\frac{1}{2}$	1 15	E	8 58	SCO	12
164	13	S.	4 06	C	7 22	O	15 16	16	9	9 1 $\frac{1}{4}$	1 45	D	9 46	SCO	13
165	14	M.	4 06	C	7 23	O	15 17	16	9 3 $\frac{3}{4}$	9 3 $\frac{3}{4}$	2 21	C	10 36	SGR	14
166	15	Tu.	4 06	C	7 23	O	15 17	15	10 1 $\frac{1}{2}$	10 1 $\frac{1}{2}$	3 ^A _M 04	C	11 ^P _M 28	SGR	15
167	16	W.	4 06	C	7 24	O	15 18	15	11	11 1 $\frac{1}{4}$	rises	—	—	—	—
168	17	Th.	4 06	C	7 24	O	15 18	15	11 3 $\frac{3}{4}$	—	8 ^P _M 34	O	12 ^A _M 21	CAP	16
169	18	Fr.	4 06	C	7 24	O	15 18	15	0	0 1 $\frac{1}{2}$	9 11	N	1 14	CAP	17
170	19	Sa.	4 06	C	7 25	O	15 19	15	0 1 $\frac{1}{2}$	1 1 $\frac{1}{4}$	9 42	M	2 05	AQR	18
171	20	S.	4 06	C	7 25	O	15 19	14	1 1 $\frac{1}{4}$	2	10 10	K	2 55	AQR	19
172	21	M.	4 06	C	7 25	O	15 19	14	2	2 3 $\frac{3}{4}$	10 36	J	3 43	AQR	20
173	22	Tu.	4 07	C	7 25	O	15 19	14	3	3 1 $\frac{1}{2}$	11 01	I	4 30	PSC	21
174	23	W.	4 07	C	7 26	O	15 19	14	3 3 $\frac{3}{4}$	4 1 $\frac{1}{4}$	11 27	G	5 18	PSC	22
175	24	Th.	4 07	C	7 26	O	15 18	14	4 3 $\frac{3}{4}$	5 1 $\frac{1}{4}$	11 ^P _M 55	F	6 07	ARI	23
176	25	Fr.	4 08	C	7 26	O	15 18	13	5 3 $\frac{3}{4}$	6 1 $\frac{1}{4}$	—	—	6 59	ARI	24
177	26	Sa.	4 08	C	7 26	O	15 18	13	6 3 $\frac{3}{4}$	7 1 $\frac{1}{4}$	12 ^A _M 29	E	7 55	TAU	25
178	27	S.	4 08	C	7 26	O	15 18	13	7 3 $\frac{3}{4}$	8 1 $\frac{1}{4}$	1 09	D	8 54	TAU	26
179	28	M.	4 09	C	7 26	O	15 17	13	8 3 $\frac{3}{4}$	9 1 $\frac{1}{4}$	1 58	C	9 55	G'M	27
180	29	Tu.	4 09	C	7 26	O	15 17	13	9 3 $\frac{3}{4}$	10	2 ^A _M 57	B	10 58	G'M	28
181	30	W.	4 10	C	7 26	O	15 16	12	10 3 $\frac{3}{4}$	11	sets	—	11 ^A _M 58	CNC	0

JUNE hath 30 days.

[1954]



Breath's momentary profile, the quick word,
That praised the flower, went back to general air;
On the bright field, the shadow of the bird
Was swift and gone, and there was nothing there.
But something happened here, something like love:
A bird's love for the field the bird flew over,
A man's love for the flower spoken of . . .
These make no sign, but they have had a lover.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1 Tu.		NICOMEDE Mary Dyer runs {10.0 Hanged 1660 high {11.7	
2 W.	♂ ♀ ☾	Tides {9.9 Set	
3 Th.	♂ ♀ ☾	Hol. {11.5 So. {9.7 aside	
4 Fr.		Dunkirk Tides {11.0 Evac. 1940 {9.5 one	
5 Sa.		World's First Funeral Tides {10.5 Oration 1342 {9.2 day	
6 C		Whit Sunday Inv. Tides {9.9 Pentecost 1944 {9.0 to get	
7 M.		SHAVUOTH Rained in Tides {9.4 Kansas 1844 {8.9 in	
8 Tu.		Red Sox 29 on Tides {8.8 Browns 4 1950 Eq. {8.8 hay.	
9 W.	♂ ♀ ☾	Gr. El. Tides {8.8 You'll	
10 Th.		[9th Ember Days] "Worcester" {8.2 9, 11, 12. Tornado 1953 {8.9	
11 Fr.	♂ ♀ ☾	in Tides {8.0 Apo. {9.1 wish you	
12 Sa.		Drought ends δ h C Tides {8.0 1950 {9.2 had,	
13 C		Trinity S. ♀ Gr. Hel. {8.0 Lat. N. {9.4 this	
14 M.		Flag Day Hol. Tides {8.1 Mo., Pa. {9.6 week	
15 Tu.		St. Bernard rides Hol. Tides {8.2 low Id. {9.8 is	
16 W.		Sacred Invasion ♀ in ☾ {8.4 Heart Moon {10.0 bad.	
17 Th.		Corpus Bunker Hol. Suf. {8.5 Christi Hill Cty. Mass. ♂ ♂ ☾ {—	
18 Fr.		War of Tides {10.1 1812 {8.7 Winds aborn-	
19 Sa.		Rosenbergs N. Y.-Conn. {10.2 exec. 1953 Tornado 1794 {8.9 ing	
20 C		2 a. P. Father's Hol. {10.2 Day W. Va. {9.1 sailors	
21 M.		Summer begins Tides {10.1 5.55 P.M. {9.3 take	
22 Tu.		Cape Cod Canal opened 1909 on Stat in {10.0 Eq. R.A. {9.6	
23 W.		Ohio, W. Va., Pa. {9.8 Tornado 1944 {9.9 warning.	
24 Th.		John the Baptist was born ♂ ♂ ☾ {9.6 {10.1 Rains	
25 Fr.		"Blood is thicker than Water" 1859 Tides {9.4 {10.4 before	
26 Sa.		Now Bathe at ♀ In {9.3 Old Orchard, Me. Aph. {10.8 seven,	
27 C		2nda. T. Korea in {9.3 1950 C Pert {11.0 clears	
28 M.		Molly Pitcher runs {9.4 1778 high {11.3 by 11.	
29 Tu.		Sis. Peter & Paul Marry today {9.5 Good luck always. {11.4	
30 W.		Total Eclipse ♂ ♀ ☾ ♂ ♀ ☾ {11.4	

15% of all U. S. tornadoes come this month.

A countryman's way of life is more than plowing and sowing and mowing or any of the daily work on the farm. His way of life is made up of things around him that he has grown up with—the old homestead, the little trout brook, and, most of all, the great trees he has always known. These trees are to him sound and shade and motion and blessed coolness in hot summers. The friendly rough feel of their bark he knows and loves. He has a hundred unconscious pictures of them in his mind—their great limbs groaning and bending in the hurricane, green leaves swirling into every corner of the barnyard, and the air filled with the crushed grape-like smell of them; or his trees silver and still in the moonlight with a little breath of night wind dying in them; or bold and black against the lightning stroke—and sometimes riven; or bleak and brittle against the white drifts of winter. Around the old home and barnyard they are an oasis of welcome, and when he is at the far corners of his fields they reach out to him.

New England, particularly rural New England, loves its elms. But hundreds have already been lost to the Dutch Elm disease—yet all need not be lost. Destruction of diseased trees and a stepped up spraying program costs a lot. But many Connecticut towns have gladly done this—and they have saved their elms. With some state or government aid every town could do the same.

1954]

JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/
	1	23 ^N .07		7	22 36	13	21 50	19	20 52	25	19 40		25	19 40	
	2	23 03		8	22 29	14	21 41	20	20 40	26	19 27		26	19 27	
	3	22 58		9	22 22	15	21 32	21	20 29	27	19 14		27	19 14	
	4	22 53	10	22 15	16	21 23	22	20 17	28	19 00		28	19 00		
	5	22 48	11	22 07	17	21 13	23	20 05	29	18 46		29	18 46		
	6	22 42	12	21 59	18	21 02	24	19 51	30	18 31		30	18 31		

▷ First Quarter, 7th day, 8 h. 33 m., evening, W.

○ Full Moon, 15th day, 7 h. 29 m., evening, E.

◐ Last Quarter, 22nd day, 7 h. 14 m., evening, E.

● New Moon, 29th day, 5 h. 20 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week.	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun. Past. m.	Full Sea, Boston. Morn. Even.	☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
182	1	Th.	4 10	C	7 26	O	15 16	12	11½ 11¾	8 ^P _M 24	M	12 ^P _M 55	CNC	1
183	2	Fr.	4 11	C	7 25	O	15 15	12	— 0½	8 56	L	1 47	LEO	2
184	3	Sa.	4 11	C	7 25	O	15 14	12	0¾ 1¼	9 22	K	2 35	LEO	3
185	4	S.	4 12	C	7 25	O	15 13	12	1½ 2	9 46	J	3 20	VIR	4
186	5	M.	4 12	C	7 25	O	15 12	11	2¼ 3¼	10 08	I	4 02	VIR	5
187	6	Tu.	4 13	C	7 24	O	15 12	11	3 3½	10 30	G	4 44	LIB	6
188	7	W.	4 14	C	7 24	O	15 11	11	4 4½	10 52	F	5 25	LIB	7
189	8	Th.	4 14	C	7 24	O	15 10	11	4¾ 5¼	11 17	E	6 08	LIB	8
190	9	Fr.	4 15	C	7 23	O	15 08	11	5¾ 6	11 ^P _M 45	D	6 52	SCO	9
191	10	Sa.	4 16	C	7 23	N	15 07	11	6½ 7	—	—	7 38	SCO	11
192	11	S.	4 16	D	7 22	N	15 06	10	7½ 7¾	12 ^A _M 18	D	8 28	SGR	12
193	12	M.	4 17	D	7 22	N	15 05	10	8¼ 8½	12 59	C	9 19	SGR	13
194	13	Tu.	4 18	D	7 21	N	15 03	10	9¼ 9¼	1 47	C	10 12	SGR	14
195	14	W.	4 19	D	7 21	N	15 02	10	10 10	2 ^A _M 43	C	11 06	CAP	15
196	15	Th.	4 20	D	7 20	N	15 01	10	10¾ 10¾	rises	—	11 ^P _M 59	CAP	16
197	16	Fr.	4 20	D	7 20	N	14 59	10	11¼ 11½	7 ^P _M 44	M	—	—	—
198	17	Sa.	4 21	D	7 19	N	14 58	10	— 0	8 14	L	12 ^A _M 50	AQR	17
199	18	S.	4 22	D	7 18	N	14 56	10	0¼ 0¾	8 41	J	1 40	AQR	18
200	19	M.	4 23	D	7 17	N	14 54	10	1 1½	9 06	I	2 28	PSC	19
201	20	Tu.	4 24	D	7 17	N	14 53	10	1¾ 2¼	9 32	H	3 16	PSC	20
202	21	W.	4 25	D	7 16	N	14 51	9	2½ 3	9 59	F	4 05	ARI	21
203	22	Th.	4 26	D	7 15	N	14 49	9	3½ 4	10 30	E	4 56	ARI	22
204	23	Fr.	4 27	D	7 14	N	14 47	9	4½ 5	11 07	D	5 49	TAU	23
205	24	Sa.	4 28	D	7 13	N	14 46	9	5½ 6	11 ^P _M 51	C	6 46	TAU	24
206	25	S.	4 29	D	7 12	N	14 44	9	6½ 7	—	—	7 45	G'M	25
207	26	M.	4 29	D	7 11	N	14 42	9	7½ 8	12 ^A _M 45	B	8 45	G'M	26
208	27	Tu.	4 30	D	7 10	N	14 40	9	8¾ 9	1 48	C	9 45	CNC	27
209	28	W.	4 31	E	7 09	M	14 38	9	9½ 10	2 ^A _M 57	C	10 43	CNC	28
210	29	Th.	4 32	E	7 08	M	14 36	9	10½ 10¾	sets	—	11 ^A _M 36	LEO	29
211	30	Fr.	4 33	E	7 07	M	14 34	9	11¼ 11½	7 ^P _M 23	L	12 ^P _M 26	LEO	1
212	31	Sa.	4 34	E	7 06	M	14 31	9	— 0	7 ^P _M 48	J	1 ^P _M 12	VIR	2

JULY hath 31 days.

[1954]



The woods stand close around,
And the sound the leaves make
Is small and near, a green sound —
This, for joy's sake,
Since joy is surely here

High up there is a clear
Way that the trees make
To show how blue and near
Is heaven — for love's sake;
And love is surely here.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Earhart Dis. 1937 $\odot \odot \odot$ Tides { 9.7 11.2	Crops
2	Fr.	Visitation W. Elizabeth δ Nearest $\oplus$ { 9.7 are	
3	Sa.	$\odot \odot \odot \oplus$ in Aph. Tides { 10.8 9.6	thriving
4	C	4th S. a. $\mathbb{P}$. Ind. Day { 10.4 9.5	despite
5	M.	$\odot$ on Ψ Stat. Tides { 9.8 Eq. in R.A. 9.3	rain's
6	Tu.	Beecher Exon. 1875 $\odot \odot \odot$ Inf. Tides { 9.2 9.2	
7	W.	St. Frances Cabrini h Stat. { 8.7 in R.A. 9.0	driving.
8	Th.	Eph. Howe Art. Salem 1677 $\odot \Psi \odot$ Tides { 8.8 8.9	Hot,
9	Fr.	in $\odot h \odot$ Tides { 7.9 Apo. 8.9	sultry,
10	Sa.	Ford had \$223.65—1903 $\odot \odot \mathbb{V}$ Tides { 7.7 9.0	bit
11	C	4tha. Tr. Tides { 7.7 9.1	of a
12	M.	Kansas-Okla. Floods 1951. Tides { 7.8 9.8	drought,
13	Tu.	$\odot$ rides low. $\odot \odot \odot$ Hol. Tenn. Tides { 7.9 9.8	
14	W.	Campanile Bastille Day Tides { 8.2 9.9	but
15	Th.	St. Swithin Buck Moon Par. Eclipse Tides { 8.5 9.1	let's
16	Fr.	$\square \Psi \odot \odot \odot \odot$ Gr. Hel. Lat. S. { 8.8 10.4	
17	Sa.	Tornado Kansas City 1880 [16th Stat. in R.A.] { 9.2	
18	C	5tha. $\mathbb{T}$. Behring Disc. Am. 1741 { 10.5 9.5	not
19	M.	$\odot$ on Eq. $\mathbb{V}$ in $\odot \odot$ Tides { 10.8 9.8	pout
20	Tu.	Peregrine White D. 1704 Tides { 10.4 10.1	or
21	W.	Daniel Pittsburg Riots 1877 Tides { 10.2 10.2	shout.
22	Th.	M. Magdalene Tides { 9.8 10.8	
23	Fr.	1st English Newspaper 1588 $\odot$ in Perli { 9.4 10.8	Sharp
24	Sa.	[25th DOG DAYS] BEGIN James Christopher Hol. Utah { 9.1 10.4	blasts,
25	C	7tha. $\mathbb{P}$. Christopher Tides { 8.9 10.5	
26	M.	$\odot$ runs high $\square h \odot$ Gr. El. W. Tides { 8.8 10.6	
27	Tu.	Seven Sleepers $\odot \odot \mathbb{V} \odot \mathbb{V} \odot$ { 9.0 10.8	soon
28	W.	$\odot \odot \odot \odot \odot \odot$ Tides { 9.2 10.9	
29	Th.	Ponies penned at Assateague, Va. δ Stat. in R.A. { 9.5 10.9	
30	Fr.	Over 100 deg. Providence 1949 Tides { 9.7 10.8	past.
31	Sa.	Sixt Day Drought 1949 Tides { 9.7 9.8	

It was early of a Fourth of July morning in the pretty little Vermont town, but all along Main Street from the High School, Tukey, the highway agent, and his crew had been busy sweeping and cleaning up the route of the parade, for the town still had its complement of horse drawn traffic and there was a substantial accumulation to sweep. It was Tukey's plan to put a rope across both ends of the street to prevent any equine passing before parade time, and he was about to do so when he saw at the top of the street old Grimes driving his wagon and leading a cow behind.

He rushed up, demanding that Grimes get off the thoroughfare and clean up behind him. Bill refused to do either. Tukey was highway agent wasn't he? It was his job to clean the streets. And he passed serenely on, Tukey hopping blasphemously beside him.

Before you knew it crowds were gathering, and the story of the great Main Street controversy was all over town. Sides were taken—husband against wife, brother against brother. Though a civic duty was involved, neither Tukey nor Grimes would give in.

At last the parade was held, but it couldn't walk in a straight line, for Bill's old horses had been in no hurry and had wandered some. A sorry affair—the "Tukey" half of the band bleating and blowing against the "Grimes" half, and nobody in step.

After a public hearing the next week, Tukey was fired.

1954]

AUGUST, EIGHTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1	18	N.02	7	16	26	13	14	41	19	12	47	25	10	46
	2	17	47	8	16	09	14	14	23	20	12	28	26	10	26
	3	17	31	9	15	52	15	14	04	21	12	08	27	10	05
	4	17	15	10	15	35	16	13	45	22	11	48	28	9	44
	5	16	59	11	15	17	17	13	26	23	11	27	29	9	22
	6	16	43	12	14	59	18	13	03	24	11	07	30	9	01

☾ First Quarter, 6th day, 1 h. 50 m., evening, E.

☉ Full Moon, 14th day, 6 h. 03 m., morning, W.

☾ Last Quarter, 20th day, 11 h. 51 m., evening, E.

● New Moon, 28th day, 5 h. 21 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn. Even.	☾ Sets. h. m.	☾ Key	☾ Souths. h. m.	☾'s Place	Moon's Age	
213	1	S.	4 35	E	7 05	M	14 29	10	0 $\frac{1}{4}$	0 $\frac{3}{4}$	8 ^P 11	I	1 ^P 56	VIR	3
214	2	M.	4 36	E	7 04	M	14 27	10	1	1 $\frac{1}{2}$	8 33	H	2 38	VIR	4
215	3	Tu.	4 37	E	7 03	M	14 25	10	1 $\frac{3}{4}$	2 $\frac{1}{4}$	8 55	G	3 20	LIB	5
216	4	W.	4 39	E	7 01	M	14 23	10	2 $\frac{1}{2}$	3	9 19	F	4 02	LIB	6
217	5	Th.	4 40	E	7 00	M	14 21	10	3 $\frac{1}{4}$	3 $\frac{3}{4}$	9 46	E	4 46	SCG	7
218	6	Fr.	4 41	E	6 59	M	14 18	10	4	4 $\frac{1}{2}$	10 17	D	5 31	SCO	8
219	7	Sa.	4 42	E	6 58	M	14 16	10	5	5 $\frac{1}{4}$	10 53	C	6 19	SCO	9
220	8	S.	4 43	E	6 56	M	14 14	10	6	6 $\frac{1}{4}$	11 ^P 38	C	7 09	SGR	10
221	9	M.	4 44	E	6 55	M	14 11	10	6 $\frac{3}{4}$	7 $\frac{1}{4}$	—	—	8 02	SGR	11
222	10	Tu.	4 45	E	6 54	M	14 09	10	7 $\frac{3}{4}$	8	12 ^A 30	C	8 55	CAP	12
223	11	W.	4 46	F	6 52	L	14 06	11	8 $\frac{3}{4}$	8 $\frac{3}{4}$	1 30	C	9 48	CAP	13
224	12	Th.	4 47	F	6 51	L	14 04	11	9 $\frac{1}{2}$	9 $\frac{3}{4}$	2 36	D	10 40	AQR	14
225	13	Fr.	4 48	F	6 49	L	14 02	11	10 $\frac{1}{4}$	10 $\frac{1}{2}$	3 ^A 46	E	11 ^P 31	AQR	15
226	14	Sa.	4 49	F	6 48	L	13 59	11	10 $\frac{3}{4}$	11 $\frac{1}{4}$	rises	—	—	—	—
227	15	S.	4 50	F	6 47	L	13 56	11	11 $\frac{1}{2}$	11 $\frac{3}{4}$	7 ^P 09	J	12 ^A 21	PSC	16
228	16	M.	4 51	F	6 45	L	13 54	11	—	0 $\frac{1}{4}$	7 35	H	1 11	PSC	17
229	17	Tu.	4 52	F	6 44	L	13 51	12	0 $\frac{3}{4}$	1	8 04	G	2 01	ARI	18
230	18	W.	4 53	F	6 42	L	13 49	12	1 $\frac{1}{2}$	1 $\frac{3}{4}$	8 33	F	2 52	ARI	19
231	19	Th.	4 54	F	6 41	L	13 46	12	2 $\frac{1}{4}$	2 $\frac{3}{4}$	9 08	D	3 45	TAU	20
232	20	Fr.	4 55	F	6 39	L	13 44	12	3 $\frac{1}{4}$	3 $\frac{1}{2}$	9 50	C	4 41	TAU	21
233	21	Sa.	4 56	F	6 38	L	13 41	13	4 $\frac{1}{4}$	4 $\frac{1}{2}$	10 41	C	5 39	G'M	23
234	22	S.	4 58	F	6 36	L	13 38	13	5 $\frac{1}{4}$	5 $\frac{1}{2}$	11 ^P 40	B	6 39	G'M	24
235	23	M.	4 59	F	6 34	L	13 36	13	6 $\frac{1}{4}$	6 $\frac{3}{4}$	—	—	7 38	G'M	25
236	24	Tu.	5 00	G	6 33	K	13 33	13	7 $\frac{1}{2}$	7 $\frac{3}{4}$	12 ^A 45	C	8 35	CNC	26
237	25	W.	5 01	G	6 31	K	13 30	13	8 $\frac{1}{2}$	8 $\frac{3}{4}$	1 54	D	9 29	CNC	27
238	26	Th.	5 02	G	6 30	K	13 28	14	9 $\frac{1}{2}$	9 $\frac{3}{4}$	3 04	E	10 19	LEO	28
239	27	Fr.	5 03	G	6 28	K	13 25	14	10 $\frac{1}{4}$	10 $\frac{1}{2}$	4 ^A 11	F	11 06	LEO	29
240	28	Sa.	5 04	G	6 26	K	13 22	14	11	11 $\frac{1}{4}$	sets	—	11 ^A 51	VIR	0
241	29	S.	5 05	G	6 25	K	13 20	15	11 $\frac{1}{2}$	—	6 ^P 37	I	12 ^P 34	VIR	1
242	30	M.	5 06	G	6 23	K	13 17	15	0	0 $\frac{1}{4}$	6 59	G	1 16	LIB	2
243	31	Tu.	5 07	G	6 21	K	13 14	15	0 $\frac{1}{2}$	1	7 ^P 22	F	1 ^P 58	LIB	3



Light on this land is different — not to pass,
Not for the transient brightening of a shield,
Then gone — but something that bides deeper in;
It knows the grass roots, and where dark had been
Is something less than darkness, and the field
Shines upward from the roots and out through grass —
Some virtue in herself, when everywhere
Were darkness, else . . . her way of being there.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	C	Lammas Day Hol. Tides {10.5 Col. 9.3	Cool
2	M.	♂♀☾ ☾ on Tides {10.1 Eq. 9.7	breezes
3	Tu.	"Don't Slay Me, Soldier I am the King" 1265 Tides {9.7 9.6	but
4	W.	♂☾♂ ♀ in ☿ Tides {9.2 9.4	
5	Th.	♂☿☾ ☾☾☾ ☾ in Apo. {8.7 9.2	no
6	Fr.	TRANSFIGURATION {8.2 9.0	freezes.
7	Sa.	Name ThermoPillae of Jesus B.C. 480 {7.8 8.8	Rain
8	C	9th a. ♀. ♀ in ☿ Tides {7.6 8.3	from
9	M.	☾rides ♀ in ☿ Tides {7.6 low. 9.0	the
10	Tu.	St. Laurence ♂♂☾ Tides {7.7 9.2	East,
11	W.	Hay Fever "Nearer my Season God, 1872" {8.0 9.6	one
12	Th.	"All is Lost—Save the Royal Family", 1759 Tides {8.4 10.0	day
13	Fr.	East Coast Storm, 1873 Tides {8.9 10.4	at least.
14	Sa.	Sturgeon Ark. Moon R. I. Tides {9.5 10.7	Glass
15	C	10th a. ♀. Assumption Virgin Mary {9.9 10.9	is
16	M.	Battle of Bennington, Vt. ☾ on Eq. Tides {10.3 10.8	low,
17	Tu.	Dakota Clouds Burst 1876 ♂☾☾☾ {8.6 10.6	look out
18	W.	Virginia Dare B. 1587 ☾ in ☿ Tides {10.6 10.7	for a
19	Th.	Storms & Gales 1788, 1879 ☿ Gr. Hel. Lat. N. {10.2 10.7	blow.
20	Fr.	W. Va. proposes Kanawha 1761 Tides {9.7 10.5	
21	Sa.	22 deg. Morgan, Vermont, 1949. ♂♀☾ Sup. {9.2 10.3	No
22	C	10th a. ☾. ☾ runs high {8.8 10.1	weather
23	M.	Sacco-Vanzetti Exec. 1927 Tides {8.5 10.0	is
24	Tu.	Bartholomew ♂☿☾ ☾☾☾ Tides {8.6 10.1	ill,
25	W.	Chatterton Sulcliffe 1770 Tides {8.8 10.8	when
26	Th.	Grand Banks Storm 1883 Tides {9.1 10.4	wind
27	Fr.	U.S.T. Chathan. Torp. 1942 Tides {9.6 10.4	is
28	Sa.	Great S. Atlantic Storm Raging 1893 Tides {9.7 10.3	still.
29	C	11th a. ☾. ♂☿☾ ☾ on Eq. {9.9 10.1	
30	M.	St. Flaccius Hol. La. Tides {10.1 10.0	Rain.
31	Tu.	Heavy Rain Kingston, R.I. 1939 Tides {9.9 9.9	

There are probably a lot more ways than I can think for getting yourself into trouble on a farm, and I guess I could list a hundred. Just a few of them follow.

Don't take your bull for granted. He's the most dangerous animal in the world, and a ring in his nose doesn't make him a safe bet. And there is no such thing as a safe bull in 'pasture. Then, old machines, like old rope, have got to be sound to be good risks. And that goes for electrical wiring. As for smoking in any farm building, don't do it yourself and don't let anyone else. About smoking, the man with a pipe with dottle ready to drop anytime is worse than a man with a cigarette. Cigarette ash is just ash—pipe dottle makes fire. A pipe smoker is always careless with his matches.

Watch how you swing that axe—particularly on frozen wood. It can bite you. And a dull axe will do it faster than a sharp one. Know which way your tree is going to fall before you fell it. Don't cut timber in a high wind.

A tired man behind the wheel of his tractor is a dangerous man to himself. Machines that are half controlled can throw you too easily—and the wheels keep moving.

But the easiest way to really get yourself hurt is to stomp in all muddy on Ma's wet, clean floors when Ma is still pushing the mop. What happens to you then Ma wouldn't call an accident.

1954]

SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/
	1	8N.18		7	6	05	13	3	49	19	1	31	25	0	50
	2	7 56		8	5	43	14	3	26	20	1	07	26	1	14
	3	7 34		9	5	20	15	3	03	21	0	43	27	1	37
	4	7 12	10	4	5	57	16	2	39	22	0N.20		28	2	00
	5	6 50	11	4	4	34	17	2	16	23	0s. 04		29	2	24
	6	6 27	12	4	4	12	18	1	54	24	0	27	30	2	47

☾ First Quarter, 5th day, 7 h. 28 m., morning, E.

☾ Full Moon, 12th day, 3 h. 19 m., evening, E.

☾ Last Quarter, 19th day, 6 h. 11 m., morning, W.

● New Moon, 26th day, 7 h. 50 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	☉ Key	☉ Sets. h. m.	☉ Key	Length of Days. h. m.	☉ Sun Fast. m.	Full Sea, Boston. Morn Even	☾ Sets. h. m.	☾ Key	☾ Souths. h. m.	☾ Place	☾ Moon's Age
244	1	W.	5 08	G	6 20	K	13 11	16	1 1/4	7 48	E	2 41	LIB	4
245	2	Th.	5 09	G	6 18	K	13 09	16	2 2 1/4	8 17	D	3 25	SCO	5
246	3	Fr.	5 10	G	6 16	K	13 06	16	2 3 3/4	8 51	C	4 12	SCO	6
247	4	Sa.	5 11	G	6 15	K	13 03	17	3 1 1/2	9 32	C	5 01	SGR	7
248	5	S.	5 12	H	6 13	J	13 00	17	4 4 3/4	10 20	C	5 51	SGR	9
249	6	M.	5 13	H	6 11	J	12 58	17	5 1 1/2	11 15	C	6 43	SGR	10
250	7	Tu.	5 15	H	6 09	J	12 55	18	6 1 1/2	—	—	7 35	CAP	11
251	8	W.	5 16	H	6 08	J	12 52	18	7 1 1/4	12 18	D	8 27	CAP	12
252	9	Th.	5 17	H	6 06	J	12 49	18	8 8 1/4	1 25	E	9 19	AQR	13
253	10	Fr.	5 18	H	6 04	J	12 46	19	9 9 1/4	2 36	F	10 09	AQR	14
254	11	Sa.	5 19	H	6 02	J	12 44	19	9 3 1/2	3 48	G	11 00	PSC	15
255	12	S.	5 20	H	6 01	J	12 41	19	10 10 3/4	rises	—	11 51	PSC	16
256	13	M.	5 21	H	5 59	J	12 38	20	11 11 1/2	6 04	H	—	—	—
257	14	Tu.	5 22	H	5 57	J	12 35	20	11 3 4/4	6 34	F	12 43	ARI	17
258	15	W.	5 23	H	5 55	J	12 32	20	0 1 1/2	7 09	E	1 37	ARI	18
259	16	Th.	5 24	H	5 54	J	12 29	21	1 1 1/2	7 50	D	2 34	TAU	19
260	17	Fr.	5 25	H	5 52	I	12 27	21	2 2 1/4	8 38	C	3 33	TAU	20
261	18	Sa.	5 26	I	5 50	I	12 24	22	3 3 1/4	9 35	B	4 33	G'M	21
262	19	S.	5 27	I	5 48	I	12 21	22	4 4 1/4	10 39	C	5 33	G'M	22
263	20	M.	5 28	I	5 46	I	12 18	22	5 5 1/4	11 46	D	6 31	CNC	23
264	21	Tu.	5 29	I	5 45	I	12 15	23	6 1 1/4	—	—	7 26	CNC	24
265	22	W.	5 30	I	5 43	I	12 12	23	7 1 1/2	12 55	E	8 16	LEO	25
266	23	Th.	5 32	I	5 41	I	12 10	23	8 1 1/4	2 02	F	9 03	LEO	26
267	24	Fr.	5 33	I	5 39	I	12 07	24	9 9 1/2	3 08	G	9 48	VIR	27
268	25	Sa.	5 34	I	5 38	I	12 04	24	9 3 1/4	4 11	H	10 31	VIR	28
269	26	S.	5 35	I	5 36	I	12 01	24	10 10 3/4	sets	—	11 13	VIR	29
270	27	M.	5 36	I	5 34	I	11 58	25	11 11 1/2	5 26	G	11 55	LIB	1
271	28	Tu.	5 37	I	5 32	H	11 55	25	11 3 4/4	5 51	F	12 37	LIB	2
272	29	W.	5 38	J	5 31	H	11 53	25	0 0 1/4	6 19	E	1 21	SCO	3
273	30	Th.	5 39	J	5 29	H	11 50	26	0 3 1/4	6 52	D	2 07	SCO	4

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OCTOBER, TENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	/		0	/		0	/		0	/		0	/	
	1	3s.	10	7	5	29	13	7	46	19	9	58	25	12	05
	2	3	34	8	5	52	14	8	08	20	10	20	26	12	26
	3	3	57	9	6	15	15	8	30	21	10	41	27	12	46
	4	4	20	10	6	38	16	8	52	22	11	03	28	13	07
	5	4	43	11	7	01	17	9	14	23	11	24	29	13	27
	6	5	06	12	7	23	18	9	36	24	11	45	30	13	47

▷ First Quarter, 5th day, 12 h. 31 m., morning, W.

○ Full Moon, 12th day, 12 h. 10 m., morning, W.

◀ Last Quarter, 18th day, 3 h. 30 m., evening, W.

● New Moon, 26th day, 12 h. 47 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

KEY LETTERS REFER TO CORRECTIONS PAGE 10 THROUGH 15															
Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun East. m.	Full Sea, Boston. Morn. Even.	☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age	
274	1	Fr.	5 40	J	5 27	H	11 47	26	1½	1½	7 ^P _M 29	C	2 ^P _M 55	SGR	5
275	2	Sa.	5 41	J	5 25	H	11 44	26	2	2¼	8 14	C	3 44	SGR	6
276	3	S.	5 42	J	5 24	H	11 41	27	3	3	9 06	C	4 35	SGR	7
277	4	M.	5 44	J	5 22	H	11 38	27	3¾	4	10 04	C	5 26	CAP	8
278	5	Tu.	5 45	J	5 20	H	11 36	27	4¾	5	11 ^P _M 07	D	6 17	CAP	9
279	6	W.	5 46	J	5 18	H	11 33	28	5½	6	—	—	7 07	AQR	10
280	7	Th.	5 47	J	5 17	H	11 30	28	6½	6¾	12 ^A _M 15	E	7 56	AQR	11
281	8	Fr.	5 48	J	5 15	H	11 27	28	7½	7¾	1 25	F	8 46	PSC	12
282	9	Sa.	5 49	J	5 13	G	11 24	28	8¼	8¾	2 37	H	9 36	PSC	13
283	10	S.	5 50	K	5 12	G	11 22	29	9	9½	3 51	I	10 27	ARI	14
284	11	M.	5 51	K	5 10	G	11 19	29	9¾	10¼	5 ^M _M 07	K	11 ^P _M 21	ARI	15
285	12	Tu.	5 53	K	5 08	G	11 16	29	10¾	11¼	rises	—	—	—	—
286	13	W.	5 54	K	5 07	G	11 13	29	11½	—	5 ^P _M 43	D	12 ^A _M 19	TAU	16
287	14	Th.	5 55	K	5 05	G	11 10	30	0	0¼	6 30	C	1 19	TAU	17
288	15	Fr.	5 56	K	5 04	G	11 08	30	0¾	1	7 26	C	2 21	G'M	18
289	16	Sa.	5 57	K	5 02	G	11 05	30	1¾	2	8 30	C	3 24	G'M	19
290	17	S.	5 58	K	5 00	G	11 02	30	2¾	3	9 37	D	4 24	CNC	20
291	18	M.	6 00	K	4 59	G	10 59	30	3¾	4	10 47	E	5 21	CNC	21
292	19	Tu.	6 01	K	4 57	G	10 57	31	4¾	5	11 ^P _M 55	F	6 14	LEO	22
293	20	W.	6 02	K	4 56	G	10 54	31	5¾	6¼	—	—	7 02	LEO	23
294	21	Th.	6 03	K	4 54	G	10 51	31	7	7¼	1 ^M _M 01	G	7 47	LEO	24
295	22	Fr.	6 04	L	4 53	F	10 48	31	7¾	8¼	2 04	H	8 30	VIR	26
296	23	Sa.	6 05	L	4 51	F	10 46	31	8¾	9	3 06	I	9 12	VIR	27
297	24	S.	6 07	L	4 50	F	10 43	31	9¼	9¾	4 08	J	9 53	LIB	28
298	25	M.	6 08	L	4 48	F	10 40	32	10	10½	5 ^M _M 08	L	10 36	LIB	29
299	26	Tu.	6 09	L	4 47	F	10 38	32	10½	11	sets	—	11 ^A _M 19	SCO	30
300	27	W.	6 10	L	4 45	F	10 35	32	11¼	11¾	4 ^P _M 52	D	12 ^P _M 04	SCO	31
301	28	Th.	6 12	L	4 44	F	10 33	32	11¾	—	5 29	C	12 51	SCO	2
302	29	Fr.	6 13	L	4 43	F	10 30	32	0¼	0½	6 12	C	1 40	SGR	3
303	30	Sa.	6 14	L	4 41	F	10 27	32	1	1	7 01	C	2 30	SGR	4
304	31	S.	6 15	L	4 40	F	10 25	32	1¾	1¾	7 ^P _M 56	C	3 ^P _M 20	CAP	5

1954]

NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.			Days.			Days.			Days.			Days.		
	0	'		0	'		0	'		0	'		0	'	
	1	14s.	25	7	16	16	13	17	58	19	19	27	25	20	45
	2	14	45	8	16	34	14	18	13	20	19	41	26	20	56
	3	15	03	9	16	51	15	18	29	21	19	55	27	21	08
	4	15	22	10	17	08	16	18	44	22	20	08	28	21	18
	5	15	40	11	17	25	17	18	59	23	20	20	29	21	29
	6	15	59	12	17	41	18	19	13	24	20	33	30	21	39

☾ First Quarter, 3rd day, 3 h. 55 m., evening, E.

☾ Full Moon, 10th day, 9 h. 29 m., morning, W.

☾ Last Quarter, 17th day, 4 h. 32 m., morning, E.

● New Moon, 25th day, 7 h. 30 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	☉		Key	☾		Key	Length of Days.		Sun. East.	Full Sea, Boston.		☾		Key	☾		D's Place	Moon's Age
			Rises.	h. m.		Sets.	h. m.		h. m.	h. m.		h. m.	h. m.	h. m.	h. m.		Souths.	h. m.		
305	1	M.	6 16	L	4 39	F	10 22	32	2 1/4	2 1/2	8 ^P 57	D	4 ^P 10	CAP	6					
306	2	Tu.	6 18	L	4 37	F	10 20	32	3 1/4	3 1/2	10 01	E	4 59	CAP	7					
307	3	W.	6 19	L	4 36	E	10 17	32	4	4 1/4	11 ^P 08	F	5 47	AQR	8					
308	4	Th.	6 20	M	4 35	E	10 15	32	5	5 1/4	—	—	6 35	AQR	9					
309	5	Fr.	6 21	M	4 34	E	10 12	32	6	6 1/4	12 ^A 16	G	7 23	PSC	10					
310	6	Sa.	6 23	M	4 33	E	10 10	32	6 3/4	7 1/4	1 26	H	8 12	PSC	11					
311	7	S.	6 24	M	4 31	E	10 07	32	7 3/4	8 1/4	2 39	J	9 04	ARI	12					
312	8	M.	6 25	M	4 30	E	10 05	32	8 1/2	9	3 55	K	9 59	ARI	13					
313	9	Tu.	6 26	M	4 29	E	10 03	32	9 1/2	10	5 ^A 14	M	10 ^P 58	TAU	14					
314	10	W.	6 28	M	4 28	E	10 00	32	10 1/4	10 3/4	rises	—	—	—	—	—				
315	11	Th.	6 29	M	4 27	E	9 58	32	11	11 3/4	5 ^P 09	C	12 ^A 00	TAU	15					
316	12	Fr.	6 30	M	4 26	E	9 56	32	—	0	6 12	C	1 05	G'M	17					
317	13	Sa.	6 31	M	4 25	E	9 54	31	0 1/2	0 3/4	7 31	C	2 09	G'M	18					
318	14	S.	6 33	M	4 24	E	9 51	31	1 1/2	1 3/4	8 33	D	3 09	CNC	19					
319	15	M.	6 34	M	4 23	E	9 49	31	2 1/4	2 3/4	9 44	E	4 06	CNC	20					
320	16	Tu.	6 35	M	4 22	E	9 47	31	3 1/4	3 3/4	10 52	G	4 57	LEO	21					
321	17	W.	6 36	M	4 22	D	9 45	31	4 1/4	4 3/4	11 ^P 57	H	5 44	LEO	22					
322	18	Th.	6 38	N	4 21	D	9 43	31	5 1/4	5 3/4	—	—	6 29	VIR	23					
323	19	Fr.	6 39	N	4 20	D	9 41	30	6 1/4	6 3/4	1 ^A 00	I	7 11	VIR	24					
324	20	Sa.	6 40	N	4 19	D	9 39	30	7 1/4	7 3/4	2 01	J	7 52	LIB	25					
325	21	S.	6 41	N	4 19	D	9 37	30	8	8 1/2	3 02	K	8 34	LIB	26					
326	22	M.	6 43	N	4 18	D	9 35	30	8 3/4	9 1/4	4 02	L	9 17	LIB	27					
327	23	Tu.	6 44	N	4 17	D	9 33	29	9 1/2	10	5 03	M	10 02	SCO	28					
328	24	W.	6 45	N	4 17	D	9 32	29	10 1/4	10 3/4	6 ^A 03	N	10 48	SCO	29					
329	25	Th.	6 46	N	4 16	D	9 30	29	10 3/4	11 1/4	sets	—	11 ^A 37	SGR	0					
330	26	Fr.	6 47	N	4 16	D	9 28	28	11 1/4	—	4 ^P 59	C	12 26	SGR	1					
331	27	Sa.	6 48	N	4 15	D	9 27	28	0	0	5 51	C	1 ^P 17	SGR	2					
332	28	S.	6 49	N	4 15	D	9 25	28	0 1/2	0 3/4	6 51	D	2 07	CAP	3					
333	29	M.	6 51	N	4 14	D	9 24	27	1 1/4	1 1/4	7 53	E	2 56	CAP	4					
334	30	Tu.	6 52	N	4 14	D	9 22	27	2	2	8 ^P 58	F	3 ^P 44	AQR	5					

NOVEMBER hath 30 days.

[1954]



Now, having been too much at ease,
Too much enamored of delight,
Fare forth to earn a stricter grace:

There break you down to hands and knees
On a stern hill of drouth and blight
That rises in a stony place,

Toward light that shines for him, alone,
Whose signature is blood on stone.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1 M.		All Saints' Day Hol. La. Tides {8.1 Cold	There are many ways to make money on a farm—and more ways to lose it. But a good Yankee farm is sure to make money.
2 Tu.		All Souls General Elections Tides {8.0 rain	
3 W.		Stat. ♂♂ in R.A. ♂♂ C Tides {8.1 and	
4 Th.		♂h⊙ ♀ Peri. Hol. {8.3 snow.	I went over one like that the other day—in Vermont not far from the Canadian border it was—and it was about everything a sound, conservative New England farm should be. They've never lost money up there after four of five generations of farming on 400 acres of rich hilltop land.
5 Fr.		Gunpowder Plot Tides {9.2 Summer	
6 Sa.		1952 Drought Relieved ☾ on Eq. Tides {9.3	
7 C		21st a. T. ♂ in R.A. Hol. Del. {9.8 a	Leonard has a herd of about twenty milking Guernseys and Jerseys, most of them registered, but all of them dropping milk like manna from heaven. He's got a few hundred chickens (a few thousand during the war), a couple of brood sows, a team of work horses as well as a tractor with all equipment. His acres are deep, rich-loamed ones that he has been expanding with a bulldozer. His pastures are rock, hardhack and thistle free, and this goes for his mowings. The yield on the latter are so heavy that he needs only one acre to make hay for each cow.
8 M.		"Great Dreadful Comet 1664 Tides {11.7 while,	
9 Tu.		The C. I. O. Boston Org. 1938 Fire 1872 {11.3 Indian	
10 W.		Beaver (In Moon Peri) Tides {11.7 style.	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
11 Th.		Armistice St. Highest High Day Martin Tide of Year {11.9	
12 Fr.		S. S. Vestris Disaster 1928 ☾ runs high {11.8 Sleet fore-	
13 Sa.		Indian Summer begins Tides {10.8 cast,	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
14 C		22nd a. T. ♀ Gr. El. W. ♂♀ Inf. {9.7	
15 M.		[14th ♂♂ C ♂♀ C Gr. Hel. Lat. N.] {9.8	
16 Tu.		[18th Byron's Dog Died] {9.8 forget the	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
17 W.		Stat. in R.A. Tides {8.8 past.	
18 Th.		"N. E.'s Most Terrible Night" 1755 Tides {8.7 Clouds	
19 Fr.		Boss Tweed Convicted 1873 ☾ on Eq. Tides {8.7 are	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
20 Sa.		Salem, Mass. 1786 Harbor Frozen Tides {8.9 low,	
21 C		24th a. P. Mayflower Compact Tides {9.1	
22 M.		Prune Grapevines ♂ψ☾ Tides {9.8 they	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
23 Tu.		☾ in Apo ♂♀h ♂h☾ ♂♀☾ {9.5	
24 W.		Storm of 1950 Catastrophic ♂♀☾ Tides {9.7 mean	
25 Th.		Thank. St. Catherine ♂♀♀ {9.8 snow.	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
26 Fr.		Total Storms 1703, 1898 ☾ low Tides {8.8 Bad	
27 Sa.		Biela's Comet Struck Earth 1872 Tides {8.4 storm	
28 C		1st S. Advent ♂♀h {8.4 from	The barns are the old barns—but sound of sills and timbers and roof. He has all modern milking equipment with individual watering for each cow, and his silo stands as firmly as if it were built yesterday.
29 M.		The Portland Lost 1898 Tides {9.7 the	
30 Tu.		St. Andrew Gale of 1944 Tides {8.4 East.	

Indian Summer is early this year.

1954]

DECEMBER, TWELFTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/	Days.	0	/
	1	21s.	48	7	22	37	13	23	09	19	23	25	25	23	24
	2	21	57	8	22	43	14	23	13	20	23	26	26	23	22
	3	22	06	9	22	49	15	23	16	21	23	27	27	23	20
	4	22	14	10	22	55	16	23	19	22	23	27	28	23	17
	5	22	22	11	23	00	17	23	22	23	23	26	29	23	14
	6	22	30	12	23	05	18	23	24	24	23	25	30	23	10

☾ First Quarter, 3rd day, 4 h. 56 m., morning, W.

○ Full Moon, 9th day, 7 h. 56 m., evening, E.

☾ Last Quarter, 16th day, 9 h. 21 m., evening, E.

● New Moon, 25th day, 2 h. 33 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 100 THROUGH 105

Day of Year	Day of Month	Day of the Week	Rises. h. m.	Key	Sets. h. m.	Key	Length of Days. h. m.	Sun Fast m.	Full Sea. Boston. Morn. Even.	☾ Sets. h. m.	Key	☾ Souths. h. m.	☾'s Place	☾'s Moon's Age	
335	1	W.	6 53	N	4 13	D	9 21	27	2 ³ / ₄	3	10 ^P _M 04	G	4 ^P _M 31	AQR	6
336	2	Th.	6 54	N	4 13	D	9 20	26	3 ¹ / ₂	3 ³ / ₄	11 ^P _M 12	H	5 17	PSC	7
337	3	Fr.	6 55	N	4 13	D	9 18	26	4 ¹ / ₂	4 ³ / ₄	—	—	6 04	PSC	8
338	4	Sa.	6 56	N	4 13	D	9 17	26	5 ¹ / ₄	5 ³ / ₄	12 ^A _M 21	I	6 52	ARI	9
339	5	S.	6 57	N	4 13	D	9 16	25	6 ¹ / ₄	6 ³ / ₄	1 32	K	7 43	ARI	11
340	6	M.	6 58	N	4 12	D	9 15	25	7 ¹ / ₄	7 ³ / ₄	2 47	L	8 38	TAU	12
341	7	Tu.	6 59	N	4 12	C	9 13	24	8	8 ³ / ₄	4 04	M	9 37	TAU	13
342	8	W.	7 00	O	4 12	C	9 12	24	9	9 ³ / ₄	5 ^A _M 23	N	10 41	G'M	14
343	9	Th.	7 01	O	4 12	C	9 11	23	10	10 ¹ / ₂	rises	—	11 ^P _M 46	G'M	15
344	10	Fr.	7 02	O	4 12	C	9 11	23	10 ³ / ₄	11 ¹ / ₂	4 ^P _M 55	C	—	—	—
345	11	Sa.	7 03	O	4 12	C	9 10	23	11 ³ / ₄	—	6 09	D	12 ^A _M 50	CNC	16
346	12	S.	7 03	O	4 12	C	9 09	22	0 ¹ / ₄	0 ¹ / ₂	7 23	E	1 50	CNC	17
347	13	M.	7 04	O	4 13	C	9 08	22	1 ¹ / ₄	1 ¹ / ₂	8 35	F	2 45	LEO	18
348	14	Tu.	7 05	O	4 13	C	9 08	21	2	2 ¹ / ₄	9 43	G	3 36	LEO	19
349	15	W.	7 06	O	4 13	C	9 07	21	3	3 ¹ / ₄	10 49	I	4 23	VIR	20
350	16	Th.	7 06	O	4 13	C	9 07	20	3 ³ / ₄	4 ¹ / ₄	11 ^P _M 51	J	5 07	VIR	21
351	17	Fr.	7 07	O	4 14	C	9 07	20	4 ³ / ₄	5	—	—	5 50	VIR	22
352	18	Sa.	7 08	O	4 14	C	9 06	19	5 ³ / ₄	6	12 ^A _M 53	K	6 32	LIB	23
353	19	S.	7 08	O	4 14	C	9 06	19	6 ¹ / ₂	7	1 54	L	7 14	LIB	24
354	20	M.	7 09	O	4 15	C	9 06	18	7 ¹ / ₂	8	2 55	M	7 58	SCO	25
355	21	Tu.	7 09	O	4 15	C	9 06	18	8 ¹ / ₄	8 ³ / ₄	3 55	N	8 44	SCO	26
356	22	W.	7 10	O	4 16	C	9 06	17	9	9 ¹ / ₂	4 54	O	9 32	SGR	27
357	23	Th.	7 10	O	4 16	C	9 06	17	9 ³ / ₄	10 ¹ / ₄	5 50	O	10 22	SGR	28
358	24	Fr.	7 11	O	4 17	C	9 06	16	10 ¹ / ₄	11	6 ^A _M 41	O	11 ^A _M 12	SGR	29
359	25	Sa.	7 11	O	4 17	C	9 06	16	11	11 ¹ / ₂	sets	—	12 03	CAP	0
360	26	S.	7 12	O	4 18	C	9 06	15	11 ³ / ₄	—	5 ^P _M 46	D	12 ^P _M 53	CAP	1
361	27	M.	7 12	O	4 19	C	9 07	15	0 ¹ / ₄	0 ¹ / ₄	6 51	E	1 42	AQR	2
362	28	Tu.	7 12	O	4 19	C	9 07	14	0 ³ / ₄	1	7 57	F	2 29	AQR	3
363	29	W.	7 12	O	4 20	C	9 08	14	1 ¹ / ₂	1 ³ / ₄	9 04	H	3 15	PSC	5
364	30	Th.	7 13	O	4 21	C	9 08	13	2 ¹ / ₄	2 ¹ / ₂	10 11	I	4 01	PSC	6
365	31	Fr.	7 13	O	4 22	C	9 09	13	3	3 ¹ / ₄	11 ^P _M 18	J	4 ^P _M 48	PSC	7

DECEMBER hath 31 days.

[1954]



Sire, it is well with me, is well, indeed,
 Here where Thy mantle of the shining air
 Stirs with Thy presence, where the flower and weed
 Brush at the boot, reminding Who is there:
 Most near, most high, around me everywhere.
 Thy mercies, Thy strong love, for my great need.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	Paula Weldon Disappeared 1946 Tides {8.5 9.4	Wind
2	Th.	Atomic Age (with a Began 1942 R. I. Gale) ♂♂ {8.6 9.2	
3	Fr.	Erie Canal ♂ on Tides {8.9 9.2	rain
4	Sa.	Frozen 1859 ♂ Eq. Stat. in {9.3 9.2	snow
5	C	"Oh Fleet that" Silent Tarries" 1768 ♀ R. A. {9.7 9.3	and
6	M.	2d S. A. Pulsifer's Hay- stack Ride 1786 {10.3 9.4	how
7	Tu.	♂ on Eq. Tides {10.9 9.6	it
8	W.	Pearl Harbor Tides {11.3 9.8	doth
9	Th.	Immaculate Conception Virgin Tides {11.6 9.9	blow.
10	Fr.	♀ in ♂ ♂ in Perl ♂ runs high {11.8 10.0	Winter
11	Sa.	Conan Doyle's Dolphin 1950 Tides {11.7 10.0	hurries
12	C	4 Day London Fog, 1952 Tides {11.4 10.9	with
13	M.	3d S. A. ♂ ♂ ♂ {9.9 10.4	
14	Tu.	St. Lucy Tides {9.7 10.9	snow
15	W.	Ember Days 14, 16, 17th. Tides {9.5 10.3	
16	Th.	"Corpses Lay on Shining Sand," 1839 ♂ ♀ h Tides {9.2 9.6	flurries.
17	Fr.	Cold Storms 1835, 1847 ♂ Eq. Tides {9.0 9.0	A cold
18	Sa.	Lazarus Died (2nd time) 63 A.D. Tides {8.8 8.4	sun
19	C	Shortest Days & Longest Nights Tides {8.8 8.0	
20	M.	4th S. A. ♀ in Aph. ♂ ♀ ♂ {8.8 7.8	just isn't
21	Tu.	First Day Chanukah Tides {8.9 7.7	
22	W.	St. Thomas ♀ Gr. bril. ♂ h ♂ ♂ ♀ ♂ in {9.0 7.7	
23	Th.	Winter 4.25 A.M. ♂ en. W Tides {9.2 7.8	any
24	Fr.	Connie Mack born 1862 ♂ rides low. Tides {9.4 8.0	fun.
25	Sa.	[25th ♂ Annular Eclipse] Tides {9.6 8.2	
26	C	Ch. D. ♂ ♀ ♂ Snp. ♂ ♂ ♂ {9.8 8.3	Fields
27	M.	1sta. Ch. St. Stephen {9.9	are
28	Tu.	St. John Judas born Tides {8.5 9.9	white,
29	W.	Marry today Bad Luck always Tides {8.7 9.9	quite
30	Th.	Storms 1839, 1946 Tides {8.9 9.9	a
31	Fr.	50 below 1933 Tides {9.1 9.7	sight.
		E. Boston Ferry Disc. 1952 ♂ ♂ ♂ {9.3 9.5	

The long December evenings when we are snug at our hearth make fine hours for quiet reminiscences and random talk. We remember the year's small and pleasant things we thought we had forgotten.

I discuss as always of a December evening the virtues of keeping a regular diary—not just jottings on farm matters such as my record of sprayings, cost of materials, etc.—but a living account of our comings and goings, grandson's first tooth, and other such. I point out that a regular diary could make clear our whereabouts on the evening of August seventh or any old time in case we get hailed into court (heaven forbid). And then the grandson's first tooth and the day and hour of the coming of the first robin will be pleasant things to look back to. I shall keep a regular diary next year. My wife goes on knitting.

Then I look as I often do through the stack of ancient **Old Farmer's Almanacs** piled on the bottom shelf and turn to the month of December, year 1818. It begins "Dread winter comes at last and shuts the scene!" I presume you have plenty of dry fuel for the convenience of your family. God help thee, traveler, on thy journey far; the wind is bitter keen." And ends: "I hope you have hired a good schoolmaster, for a poor one is a nuisance to the neighborhood."

Our sentiments exactly—and a Merry Christmas to you.



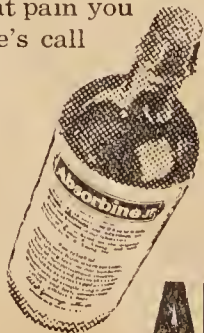
Relieve the **PRESSURE PAIN** of **Sore, Aching Muscles!**

● When muscles get stiff and lame from overexertion, don't let them "lay you up." For there's a wonderful way to relieve that ache and soreness quickly, easily!

Doctors generally will tell you the pain and stiffness may be largely caused by pressure. Sensitive nerves are irritated. Local areas become swollen and sore. That pain you feel is Nature's call

for help. For wonderful relief—*fast*—rub Absorbine Jr. on those aching spots. It helps to *counteract* the pressure which may be causing your pain. At the same time, it warms and soothes. The speed with which Absorbine Jr. works will amaze you.

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ABSORBINE JR.

THE TWELVE SIGNS OF THE ZODIAC

THE "FAMOUS" MAN OF THE SIGNS

RAM. Aries,
(ARI)

THE HEAD.
MAR. 20-APRIL 20

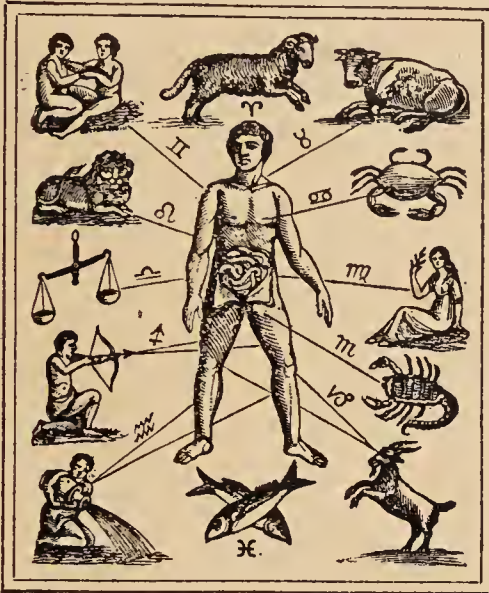
TWINS.
Gemini,
ARMS.
(G'M)

LION,
Leo.
HEART.
(LEO)

BALANCE,
Libra,
REINS.
(LIB)
SEPT. 22
OCT. 22.

ARCHER,
Sagittarius,
THIGHS.
(SGR)

WATERM'N
Aquarius,
LEGS.
(AQR)



BULL,
Taurus,
NECK.
(TAU)

CRAB,
Cancer,
BREAST.
(CNC)
JUNE 21
JULY 21.

VIRGIN,
Virgo,
BOWELS.
(VIR)

SCORPION,
Scorpio,
LOINS.
(SCO)

GOAT,
Capricornus,
KNEES.
(CAP)
DEC. 21
JAN. 21.

FISHES. Pisces, THE FEET.
(PSC)

The Man of the Signs first began appearing in almanacs in the 15th century. He is regarded highly only by astrologers and the foolish. However, these two categories include millions of otherwise sensible people. We give him to you at their request that you may laugh at, rather than believe in, his antics. As the earth spins its way around the sun, we have noted the sun (since about 3000 B.C.) "passes through" 12 divisions of the sky, marked off roughly by 30 day periods, and distinguished respectively by 12 different constellations said to resemble for any mundane star gazer, by the formation or pattern of the stars, the animals whose names appear above. At certain times of the year, for example, we say, "It is Spring, the Sun enters Aries." (See bottom page 11.) By studying the next to last column of pages 12 to 34, you will note the moon's place in the zodiac for everyday in the year. Abbreviations (ARI for Aries, etc.) correspond with those in parentheses above.

PLANTING BY THE ZODIAC

The moon's place in the Zodiac forms the basis of the superstitions, along with its phase, about planting — the favorable signs being Cancer, Libra, and Scorpio (Cnc., Lib., Sco.). The planting table on the next page does not take into account these Zodiac sign values but gives you only the times most favorable (superstition) for planting crops according to the moon's phase. That is, supposedly, crops or flowers which bear crops above ground do better when planted by the "light of the moon" — viz., in the new or first quarter. Those which have root crops like potatoes or iris prefer being planted during the full or last quarter.

OUTDOOR PLANTING TABLE

Find the latitude of your town or city. Interpolate between columns below to find your planting date. For example, if you live in Grove City, Pa. (Lat. $41^{\circ}09'35''$) this would mean the latitude was about halfway between Boston-Phila. So your planting times would also be halfway between. N.B. Plant one week later for every 500 ft. elevation above sea level.

The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "Right" for planting the crop indicated during 1954.

CROP	42°21'44" Boston Latitude		39°56'58" Phila. Latitude		33°45'10" Atlanta Latitude	
	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between
Barley	May 15-Jun 21	May 10-17	Mar 15-Apr 7	Mar 4-11	Feb 15-Mar 7	Feb. 10-17
Beans (Early)	May 7-Jun 21	May 2-9	Apr 15-30	Apr 11-18	Mar 15-Apr 7	Mar 12-19
(Late)	Jun 15-Jul 15	Jun 9-16	Jun 1-21	Jun 1-8	Aug 7-30	Aug 7-14
Beets (Early)	May 1-15	May 1	Mar 15-Apr 30	Mar 19-27	Feb 7-29	Feb 17-25
(Late)	Jul 15-Aug 15	Jul 16-22	Jul 15-30	Jul 16-22	Aug 7-30	Aug 15-20
Broccoli (E)	May 15-30	May 10-17	Mar 7-30	Mar 4-11	Feb 15-Mar 15	Feb 10-17
(Late)	Jun 15-Jul 7	Jun 9-16	Aug 1-20	Aug 1-6	Sept 7-30	Sept 6-12
Brussels Spr.	May 15-30	May 10-17	Mar 7-Apr 15	Mar 4-11	Feb 11-Mar 20	Feb 10-17
Cabbage (E)	May 15-30	May 10-17	Mar 7-Apr 15	Mar 4-11	Feb 7-Mar 20	Feb 3-10
(L)	Jun 7-Aug 7	Jun 9-16	Jun 1-Jul 7	Jun 1-8	Jul 15-30	Jul 8-15
Carrots (E)	May 15-30	May 18-25	Mar 7-31	Mar 19-27	Feb 15-Mar 7	Feb 17-25
(Late)	Jun 15-Jul 21	Jun 17-22	Apr 7-May 30	Apr 19-25	Aug 1-Sept 7	Aug 15-20
Cauliflower (E)	May 15-30	May 10-17	Mar 15-Apr 7	Mar 12-19	Feb 15-Mar 7	Feb 10-17
(Late)	June 15-Jul 21	Jun 9-16	Jun 1-Jul 7	Jun 1-8	Aug 7-30	Aug 7-14
Celery (Early)	May 15-Jun 30	May 18-25	May 7-30	May 1	Apr 15-30	Apr 2
(Late)	Jul 15-Aug 15	Jul 16-22	Jun 15-Jul 7	Jun 17-22		
Corn, Sweet (E)	May 15-Jun 15	May 10-17	Mar 15-30	Mar 12-19	Feb 15-29	Feb 10-17
(Late)	Jun 15-30	Jun 9-16	May 7-Jun 21	May 2-9	Aug 7-30	Aug 7-14
Cucumber	May 7-Jun 20	May 2-9	Apr 7-May 15	Apr 3-10	Mar 7-Apr 15	Mar 4-11
Egg Plant	Jun 1-30	Jun 1-8	Apr 7-May 15	Apr 3-10	Mar 7-Apr 15	Mar 4-11
Endive (Early)	May 15-30	May 10-17	Apr 7-May 15	Apr 3-10	Feb 15-Mar 20	Feb 10-17
(Late)	Jun 7-30	Jun 1-8	Jul 15-Aug 15	Jul 29	Aug 15-Sept 7	Aug 28
Kale (Early)	May 15-30	May 10-17	Mar 15-Apr 7	Mar 10-17	Feb 15-Mar 7	Feb 10-17
(Late)	Jul 1-Aug 7	Jul 1-7	Jul 15-31	Jul 15	Sept 7-30	Sept 6-12
Leek	May 15-30	May 18-25	Mar 7-Apr 7	Mar 19-27	Feb 15-Apr 15	Feb 17-25
Lettuce	May 15-Jun 30	May 10-17	Mar 1-31	Mar 4-11	Feb 15-Mar 7	Feb 10-17
Melon (Musk)	May 15-Jun 30	May 10-17	Apr 15-May 7	Apr 11-18	Mar 15-Apr 7	Mar 12-19
Onion	May 15-Jun 7	May 18-25	Mar 1-31	Mar 3	Feb 1-28	Feb 2
Parsley	May 15-30	May 10-17	Mar 1-31	Mar 4-11	Feb 20-Mar 15	Feb 17
Parsnip	Apr 1-30	Apr 2	Mar 7-31	Mar 3	Jan 15-Feb 7	Jan 18-26
Peas (Early)	Apr 15-May 7	Apr 11-18	Mar 7-31	Mar 4-11	Jan 15-Feb 7	Jan 11-18
(Late)	Aug 15-30	Aug 14	Jul 7-31	Jul 8-15	Aug 15-30	Aug 14
Pepper	May 15-Jun 30	May 10-17	May 1-31	May 31	Apr 1-20	Apr 3-10
Pumpkin	May 15-30	May 10-17	Apr 23-May 15	May 2	Apr 7-20	Apr 3-10
Potatoes	May 15-30	May 18-25	Apr 7-May 30	Apr 19	Jan 1-Mar 7	Jan 5
Radish (Early)	Apr 15-30	Apr 19-25	Mar 7-31	Mar 19-27	Jan 21-Mar 1	Jan 18-26
(Late)	Aug 15-30	Aug 15-20	Aug 7-31	Aug 15	Sept 1-21	Sept 13
Spinach (E)	May 15-30	May 10-17	Mar 15-Apr 20	Mar 12-19	Feb 7-Mar 15	Feb 10-17
(Late)	Jul 15-Sept 7	Jul 29	Aug 1-Sept 15	Aug 1-6	Sept 1-21	Sept 1-7
Swiss Chard	May 1-30	May 2-9	Mar 15-Apr 15	Mar 12-19	Feb 7-Mar 15	Feb 10-17
Summer Squ	May 15-Jun 15	May 10-17	Apr 15-May 15	Apr 11-18	Mar 15-Apr 15	Mar 12-19
Tomato	May 15-30	May 10-17	Apr 7-30	Apr 3-10	Mar 7-20	Mar 4-11
Turnip (Early)	Apr 7-30	Apr 19	Mar 15-30	Mar 19	Jan 20-Feb 15	Jan 18-26
(Late)	Jul 1-Aug 15	Jul 16	Aug 1-20	Aug 15	Sept 1-Oct 15	Sept 13
Wheat (Fall)	Oct 7-30	Oct 6-12	Sept 15-Oct 20	Sept 26	Oct 15-Dec 7	Oct 12-18
(Spring)	Apr 7-30	Apr 11-18	Apr 1-20	Apr 3-10	Mar 15-31	Mar 19

PLANTING DATES FOR FLOWERS . . . (Also see page 37)

On the preceding page you will find approximate planting dates for vegetables and for crops, with a "moon column" adjoining each geographical division which tells you what some people consider the best moon planting time. In considering this "moon planting time" one should remember it is superstition only and has never been proven of value by scientific methods. The way these moon times are arrived at are: that crops or flowers which win their way by results above ground (like beans or pansies) do better when planted in the "light" of the moon—which is the same thing as saying during the new or first quarter of the moon. Those with root crops do better when planted during the full or last quarter of the moon. For flowers then use the opposite page taking the "Beans" head for everything except those largely dependent on bulbs—like lilies, tulips, iris, etc., for which the moon and other planting dates would correspond with those given for beets or potatoes.

AVERAGE DATES FIRST AND LAST KILLING FROSTS

Boston	Apr. 14 — Oct. 26
Albany	Apr. 24 — Oct. 15
Harrisburg	Apr. 9 — Oct. 28
Cincinnati	Apr. 8 — Oct. 23
Toledo	Apr. 22 — Oct. 18
Chicago	Apr. 16 — Oct. 19
Detroit	Apr. 28 — Oct. 15
Duluth	May 6 — Oct. 5
Bismarck	May 11 — Sept. 21
Omaha	Apr. 14 — Oct. 15
Portland, Maine	Apr. 19 — Oct. 17
Hartford	Apr. 20 — Oct. 13
Evansville	Apr. 5 — Oct. 29
Cairo	Mar. 31 — Oct. 29
Minneapolis	Apr. 27 — Oct. 10
Concord, N. H.	May 7 — Oct. 3

Richmond	Mar. 31 — Nov. 2
Raleigh	Mar. 27 — Nov. 5
Macon	Mar. 14 — Nov. 14
Del Rio	Feb. 23 — Nov. 27
Helena	May 7 — Sept. 29
Santa Fe	Apr. 25 — Oct. 19
Tucson	Mar. 11 — Nov. 9
Yuma	Jan. 20 — Dec. 20
Portland, Ore.	Mar. 15 — Nov. 21
San Francisco	Jan. 13 — Dec. 29
Parkersburg	Apr. 17 — Oct. 18
Oklahoma City	Mar. 30 — Nov. 3
Denver	May 3 — Oct. 10
Spokane	Apr. 14 — Oct. 13
Salt Lake City	Apr. 18 — Oct. 20



Iroquois Melon is resistant to fusarium wilt

for the Northeast. In addition to its superior quality, it is resistant to fusarium wilt.

Other Harris specialties you will want to plant this year are Rhode Island Red Watermelon, North Star Corn, Green Thumb Pickles, Black Magic Egg Plants, Cover Girl and Gypsy Petunias, Multiflora Sweet Peas, Extra Choice Double Portulaca.

SEND FOR OUR FREE CATALOG

You won't find its equal for accurate descriptions, "candid" illustrations and first hand cultural directions.

JOSEPH HARRIS CO., INC.

90 MORETON FARM

ROCHESTER 11, N. Y.

WE ARE SEED GROWERS

Not Weather Prophets

But all the signs point to a successful garden in 1954 if you plant

HARRIS SEEDS

Three generations of commercial and home gardeners have been producing outstanding crops from the *special stocks* of vegetable and flower seeds produced by three generations of the Harris family.

Pictured is Iroquois Muskmelon, the leading variety

WHO'S THAT
DOWNSTAIRS?

DON'T WORRY, DEAR,
I JUST WANT ANOTHER
DEVILED HAM SANDWICH

TIP:

M-m-m! That zesty flavor! Makes a sandwich fit for a king. Try UNDERWOOD'S half-and-half blended with chopped egg. It's a super-spread with crackers 'n cheese, or spread on toast under poached eggs.

FREE FOLDER! 23 quick, easy ideas for special dishes. Write: Wm. Underwood Co., 49 Walnut Street, Watertown 71, Mass.

UNDER WOOD

DEVILED HAM

REPLACEMENT OR A REFUND OF MONEY
★
Guaranteed by
Good Housekeeping
IF NOT AS ADVERTISED THEREIN

THE ORIGINAL...ALL FINE HAM...ZESTFULLY SEASONED

For 86 years America's favorite spread

RECIPES — KITCHEN HINTS —



FOOD

by
Nancy Dixon

Out of farm kitchens have come truly fine original recipes that have been handed with tested pride from mother to daughter . . . from neighbor to another and then in turn traveling from town to city, from city to state and when deemed worthy from country to country . . . making food a language.

PORK CAKE

- | | |
|-----------------------------|------------------------|
| 1 pound fat salt pork | 2 teaspoons allspice |
| 2 cups boiling water | 2 teaspoons nutmeg |
| 8 cups flour, sifted | 2 cups chopped raisins |
| 2 teaspoons soda | 4 eggs |
| $\frac{1}{4}$ teaspoon salt | 2 cups sugar |
| 2 teaspoons cinnamon | 2 cups molasses |
| 2 teaspoons cloves | |

Put pork through a food chopper using the finest knife; pour boiling water over the pork and let stand for fifteen minutes. Mix and sift flour, soda, salt and spices and mix with raisins. Combine eggs, sugar and molasses and add the pork mixture; gradually stir in flour-fruit mixture and mix thoroughly. Turn into 4 greased deep loaf pans lined with waxed paper and again greased. Bake in slow oven 300°F for $1\frac{1}{4}$ hours. Makes 4 loaves.

NEVER-FORGET-PORK-CHOPS

- | | |
|--------------------|----------------------|
| 1 dozen pork chops | 2 cloves garlic |
| 1 cup vinegar | 2 teaspoons salt |
| 1 cup water | 3 T. pickling spices |

Rub garlic cloves on bottom of a roasting pan and then rub salt into the garlic juice, add chops, vinegar, water and spices. Allow to stand for at least ten hours turning occasionally. Drain and bake in a slow oven for one and a half hours.

GRIDDLE MUFFINS

- | | |
|-----------------------------------|---|
| 1 package compressed or dry yeast | 3 lbs. shortening, melted or cooled |
| $\frac{1}{4}$ cup lukewarm water | $\frac{1}{4}$ tsp. salt |
| $\frac{1}{2}$ cup milk | 1 tsp. sugar |
| $\frac{1}{2}$ cup water | $3\frac{1}{2}$ cups (approx.) all purpose flour |

Soften the yeast in lukewarm water. Combine milk and the remaining water and scald. Add shortening, salt and sugar. Cook milk to lukewarm and add yeast and 2 cups flour. Stir to blend well, then knead in the remaining flour until firm and elastic. Let rise until double. Punch down and roll out $\frac{1}{4}$ inch thick on board sprinkled with corn meal. Cover and let rise until double again. When light bake slowly on an ungreased heavy griddle or frying pan. Have griddle hot first, then reduce heat so that muffins will brown slowly. Bake 7 to 8 minutes on each side. (Yield 12 muffins)

CENTURY GINGER SNAPS

- | | |
|--------------------------------|---------------|
| BOIL 1 cup molasses and add to | 1 tsp. ginger |
| shortening, size of egg | Pinch of salt |
| $\frac{3}{8}$ tsp. soda | |

When cool add flour enough to roll very thin and bake in a 400°F. oven.

NEW ENGLAND EATING AT ITS BEST!



B&M

Down-East

QUALITY FOODS

MADE IN THE TRADITIONAL
NEW ENGLAND WAY



BURNHAM & MORRILL CO., PORTLAND, MAINE

CARROT MARMALADE

- 2½ cups cooked chopped carrots
 4 cups sugar
 Juice and rind of 1 lemon, chopped
 Juice and rind of 1 orange, chopped

Cook carrots, lemon and orange until tender. Add sugar and cook until thick.

SCALLOPS AND MUSHROOMS

- | | |
|---------------------------|-------------|
| 1 pint small bay scallops | 3 T. butter |
| 1 pound fresh mushrooms | 1 T. flour |
| ⅓ cup light cream | Salt |
| ⅓ cup dry sherry | Pepper |

Wash the mushrooms well and without peeling slice them lengthwise. Sauté them in butter in a heavy covered pot over a slow fire, seasoning with salt and pepper. When soft and almost ready to serve add the cream and the scallops. Turn up the flame and cook briskly for two minutes. Now add the flour, previously stirred to a smooth paste with a little water and sherry. Cook for a few minutes longer stirring gently and serve immediately over toast or in patty shells.

SPANISH LAMB NECK SLICES

- | | |
|--------------------|----------------------|
| 6 neck slices lamb | 6 rings green pepper |
| 2 T. lard | ¼ cup rice |
| 6 slices onions | Salt and pepper |
| 6 slices tomato | |

Brown lamb neck slices on both sides in hot lard. Cook rice in boiling salted water until done. Drain. Place browned neck slices in an oiled casserole dish. On each slice place a slice of onion, one tomato and a green pepper ring. Fill this with cooked rice. Add ½ cup water, cover and cook in a moderate 350°F oven for about one hour.

DOWN EAST SIZZLERS

(Yankee Cookbook)

- | | |
|-----------------------|-----------------------------|
| 1 cup flour, sifted | 2 T. butter |
| 1 T. sugar | ½ cup milk |
| 1 teas. baking powder | 1 egg, beaten |
| ½ teas. salt | Canned blueberries, drained |

Sift the flour, baking powder and salt. Cut in the butter until the mixture is consistency of coarse cornmeal. Combine the egg and milk and stir into dry ingredients. Roll thin on a floured board and cut about the size of a saucer. Place 1 tablespoon blueberries on each pastry and seal edges with water. Fry in deep hot fat (370°F) until golden brown. Serve hot. Makes 20 sizzlers.

HOREHOUND CANDY

- | | |
|------------------------------|-------------------------|
| 1 ounce dried horehound herb | 1 teas. cream of tartar |
| leaf, stem and flowers | 1 teas. butter |
| 2½ quarts boiling water | 1 teas. lemon juice |
| 3 cups granulated sugar | |

Steep the herb in boiling water for two minutes. Strain and squeeze through cheesecloth. Allow tea to settle then decant. Add sugar and cream of tartar. Boil to 240°F, add butter and continue boiling without stirring until the temperature reaches 312°F. Remove from the fire and add lemon juice. Pour into a buttered pan. When cool block in squares, roll in confectioner's sugar and pack in airtight jars.

CAPE COD CLAM PIE

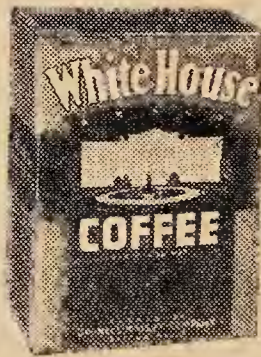
- | | |
|---------------------------------|-------------------|
| ¼ pound salt pork cut in slices | ½ cup water |
| 1 T. butter | 4 large sea clams |
| 2 T. flour | Pepper |
| 1 cup clam broth | Pastry crust |

Try out the salt pork and add the butter; blend in the flour, add the clam broth and water and cook until the broth is thickened. Grind the meaty portion of the clams (discarding the tough portions) and add the broth. Season with pepper. Line a deep dish with a rich pastry crust. Pour in the clam mixture and cover top with a crust. Cut a hole in the center and surround hole with a twist of crust. Bake in a 450°F oven for fifteen minutes and then reduce heat to moderate and bake for 20 minutes longer.

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packed or in the economy package,
and priced to save you money.*

ask your grocer for

WHITE HOUSE COFFEE

Box 1871

BOSTON, (5) MASS.

GRAHAM CRACKER DATE CANDY

- | | |
|--------------------------------|----------------------------|
| 1½ dozen large graham crackers | ½ cup undiluted evaporated |
| ½ cup chopped dates | milk or cream |
| ½ cup chopped nutmeats | Pinch salt |
| 15 marshmallows, cut | |

Roll the crackers fine or put them through a food mill. Measure ½ cup of them and press into a shallow buttered pan. Mix the remainder of crumbs with other ingredients and press on top of cracker crumbs. Mark in squares.

PEANUT PIE

- | | |
|-----------------------|---------------------------------|
| 1 cup parched peanuts | 1 teas. vanilla |
| 2 eggs, beaten | 1 cup sugar |
| 1 cup Karo syrup | 2 T. melted butter or margarine |
| ¼ teas. salt | 1 pie shell, unbaked |

Mix the ingredients together adding the peanuts last. Pour into a 9 inch pan lined with an unbaked crust. Bake in a hot oven, 400°F, for forty minutes or until filling fails to adhere to silver knife inserted in the center of the pie. Tarts may also be made with this recipe.

FOR THE HOUSEWIFE'S NOTE BOOK

QUANTITIES WHEN BUYING

Chicken	3 to 4 pounds	serves	2 to 4 persons
Turkey	8 to 18 pounds	serves	6 to 10 persons
Duck	4 pounds	serves	2 to 4 persons
Fish	1 pound	serves	2 persons
Scallops	1 pound	serves	3 persons
Shrimps	1 pound	serves	3 persons
12 ounce can	1¾ cups		2½ cups
300	1¾ cups		4 cups
1 tall	2 cups		7½ cups
10			13 cups

EQUIVALENTS

1 pound all purpose flour.....	4 cups sifted
1 pound cake flour.....	5 cups sifted
11 graham crackers.....	1 cup crumbs
¼ pound marshmallows.....	16 whole
1 pound pecans (shells).....	2¼ cups meat
1 pound almonds (shells).....	1¾ cups meat
1 pound walnuts (shells).....	1¾ cups chopped
½ pound sliced bacon.....	9 to 10 slices
1 pound frankfurters.....	9 frankfurters
1 medium lemon.....	3 T. juice
1 medium orange.....	½ cup juice
1 pound peaches.....	4 medium
12 to 14 egg yolks.....	1 cup
½ pint whipping cream.....	2 cups whipped
1 pound butter.....	2 cups
1 pound American Cheese.....	4 cups grated
1 pound cottage cheese.....	2 cups
3 ounce package cream cheese.....	6 T.
½ lb. package unsweetened chocolate.....	8.1 ounce squares
1 pound coffee.....	80 T.
1 pound granulated sugar.....	2 cups
1 pound brown sugar.....	2¼ cups, firmly packed
1 pound confectioner's sugar.....	3½ cups sifted
1 pound powdered sugar.....	2½ cups

SHORT-ORDER-SHORTS

Meat is even tastier if it is cooked with the marrow so you might ask the butcher for the shinbones of the next cut of meat you buy. He can prepare the marrow for you in his grinder. It takes a quarter of a pound for six servings.

Want a quick and meaty sauce that tastes good with all kinds of vegetables? Make a regular medium-thick cream sauce recipe and stir in contents I can Underwood Deviled Ham. Serve with mealy baked potatoes as a suggestion.

A favorite in New England
since 1887—

LOG CABIN SYRUP!



It's 67 years since
New Englanders first bought
Log Cabin, and they still
enjoy that wonderful
maple flavor. The Log Cabin
packed for New England is a
special blend of sugar and
Vermont maple sugar! It's
rich in that "Sugarbush"
flavor New Englanders
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Folks buy far more **LOG CABIN**
than any other maple-blended syrup!

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Old New England recipes and New England foods are famed throughout the world. That's why we are proud that more New Englanders shop at First National Stores than at any other food stores.

FIRST NATIONAL
STORES

ANECDOTES & PLEASANTRIES

ALWAYS A QUESTION

The new Commissioner of Agriculture of Pennsylvania, some twenty years ago, addressed his fruit growers:

"I am not good at growing things. But my wife is famous for her dahlias. A stylish city matron asked my wife, 'How do you grow such wonderful dahlias?' My wife replied, 'I use old cow manure.' The lady was puzzled for a moment, then asked, 'How old must the cow be?'"

E. Stuart Hubbard,
New England Homestead

WHAT PRICE BABY CARRIAGES?

Is Leominster, Massachusetts, short of babies or baby carriages? Old-time baby carriages (a collection of them) from the F. A. Whitney Carriage Co. recently sold for \$2,000 at auction—just to keep them in town.

TOO LATE

A man boarded the train in New York late one evening and said to the Pullman porter, as he prepared to retire, "I have an important engagement in Syracuse in the morning and must get off there. I am a very hard man to awaken but I am going to give you this \$5.00 bill. You see that I get off the train in Syracuse."

Some time later the man awakened and discovered that the sun was shining. He called the porter and asked "Where are we now?"

The porter replied, "We'll be getting into Buffalo in a short time."

The Traveller burst out in an angry protest to the porter, using words that do not ordinarily appear in print.

The Pullman conductor overheard the conversation and called the porter. He said, "You are expected to be courteous to people on the train but you don't have to stand for conversation of that kind."

The porter replied, "If you think that is bad, you should have heard the man I put off in Syracuse."

EVERYTHING BUT TALK

The smartest animal I have ever known was my yellow cat, "Patsy Sunshine." I never heard him mew. If I was in the kitchen when he wished to go

outside he rattled the door knob. If I was in another room he came to me and with his paw touched my skirt and then ran quickly to the door. He jumped in the bath tub, touched the cold water faucet just enough to drip and then he caught the drops in his mouth.

I own a parrot, "Padetta." I burn wood in the parlor stove. During cold nights in the winter toward morning the fire burns low. Patsy came to my room and patted my face with the ball of his foot until I got up and then he would quickly run into the parlor and look up at the stove. I asked Padetta, "Did you ask Patsy to come and get me?" and she replied, "Yes, I am cold."

Nellie Weeks in
American Agriculturist

SURE LAZY

Si and Hiram were talking shop. "I have without doubt the laziest rooster in the world," boasted Si.

"Just how lazy is he, Si?"

"Well, he ain't never crowed in his life. He just waits for another rooster to crow—and then he nods his head."

HUNTER

Some years ago, a friend of mine . . . had a red fox hitched in his yard. Among other things, he fed him bread and milk and supposed he ate it.

At the same time he kept losing hens, but as the fox was hitched he didn't suspect him. One day his wife happened to see the fox chew his bread and milk, and then spread the bread around. When a hen came up to get the bread, the fox caught her.

Arthur Brown in
American Agriculturist

TODAY'S CHUCKLES

Teacher commenting on little boy's poem: "Since your poem is about flowers, Wilbur, I think the word 'smell' would be more appropriate. You can still have it rhyme by substituting 'bluebell' for 'mountain pink.'"

* * *

Daughter: "Father, why was Adam made first?"

Father: "To give him a chance to say a few words."

—*Boston Herald*



*banana
town*

MIDDLE AMERICA

banana town



MIDDLE AMERICA



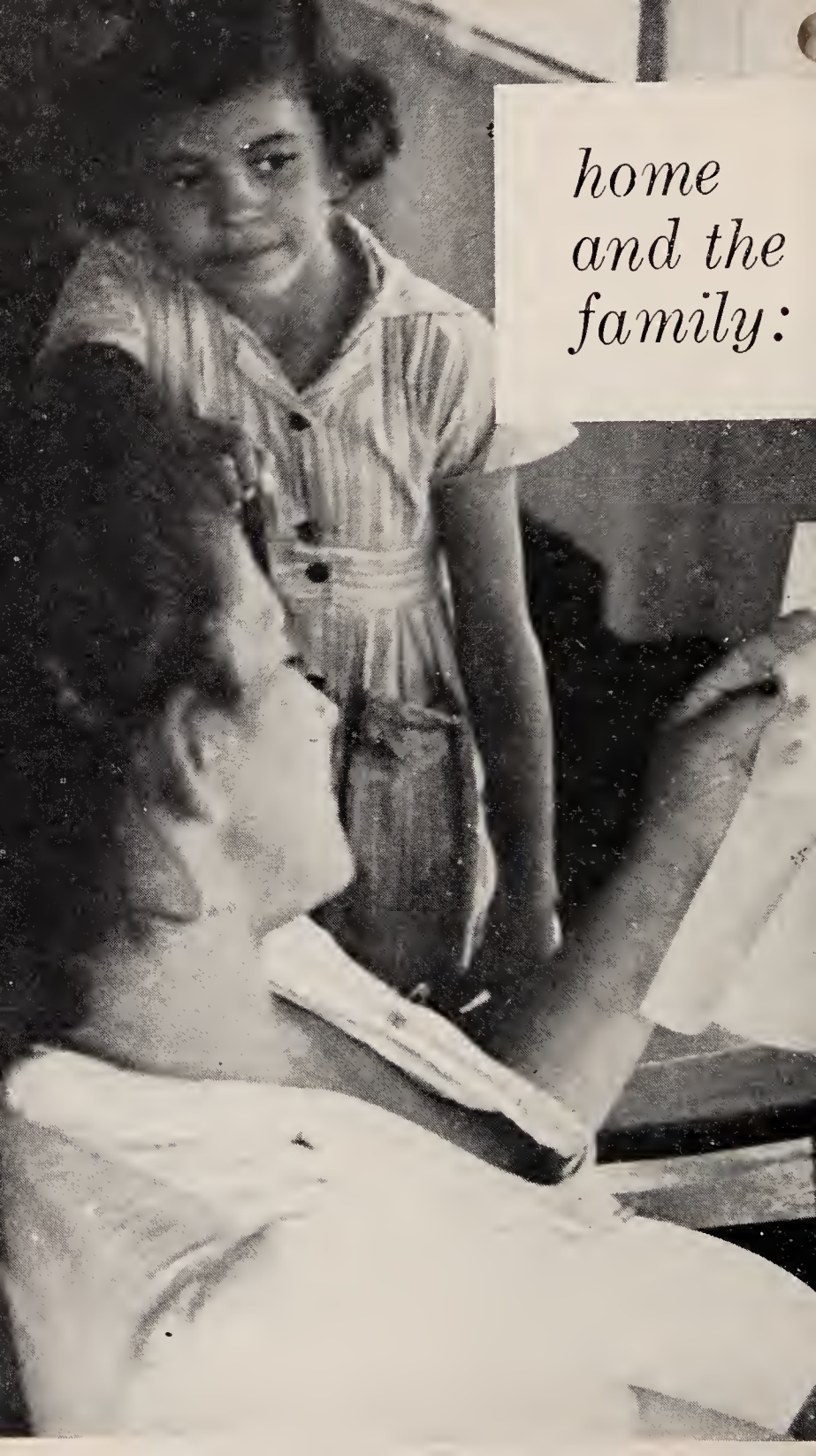
People are people everywhere. Take Banana Town, for example; see for yourself how the pattern of life in Middle America resembles that of New England.

Just as New England needs outside markets, so does Middle America. New England can't use all the textiles it manufactures, nor can Middle America consume all its bananas!

Banana Town symbolizes the sort of relations which make the Western Hemisphere strong. The tropical jungles are miraculously converted into orderly acres which produce a fruit for millions of northern neighbors. The good earth of Middle America and the good market of North America make an unbeatable combination.

These photographs of United Fruit personnel in Middle America show people who live with dignity and who have pride in their jobs. Many have learned trades and professions since joining the Company. These job opportunities, plus modern hospitals and schools, all represent efforts to improve living standards and to be useful on the part of

UNITED FRUIT COMPANY



*home
and the
family:*

Children are special in the tropics. They are treated with dignity, loved dearly. And in Banana Town, airy, well-screened, well-appointed homes add to the serenity of everyday living.





the land:



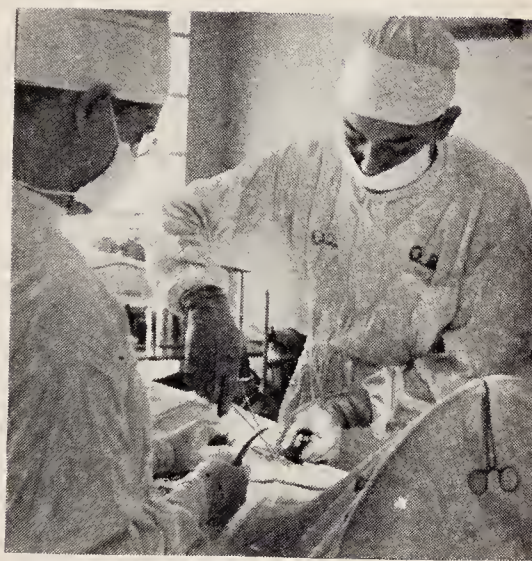


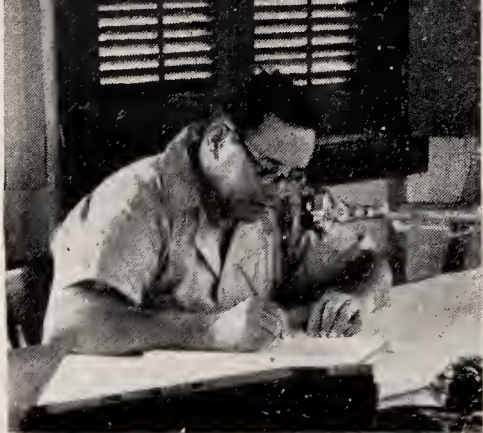
Yesterday—trackless wilds;
today—broken to the plough;
tomorrow—a carpet of green banana
plants stretching to the hills. It's a
combination of *Yanqui* ingenuity,
skilled tropical workers and
a bountiful earth.

*sound minds,
healthy bodies:*

They pledge allegiance to
their flag, just as we do . . .
and with the same passionate
pride in flag and country.
About the only difference is
that Spanish is their
basic language.
And skilled Spanish hands
and minds are at work
in Banana Town's
fine hospital. It all
adds up to sound minds
and sound bodies.







getting together:

There's an airport at
Banana Town, and a railroad
station. And there are
the phone and radio, too.
These kids know what happened
to the Red Sox just
as soon as you do—and
they're just as interested.



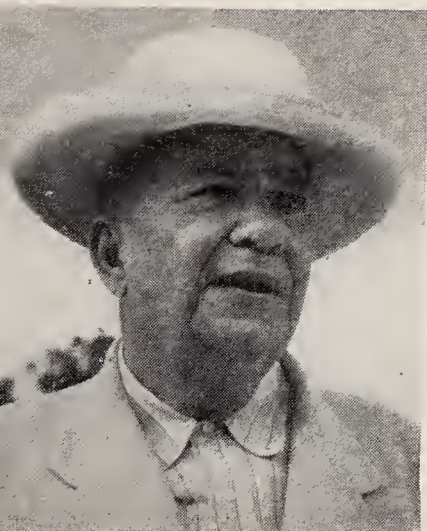
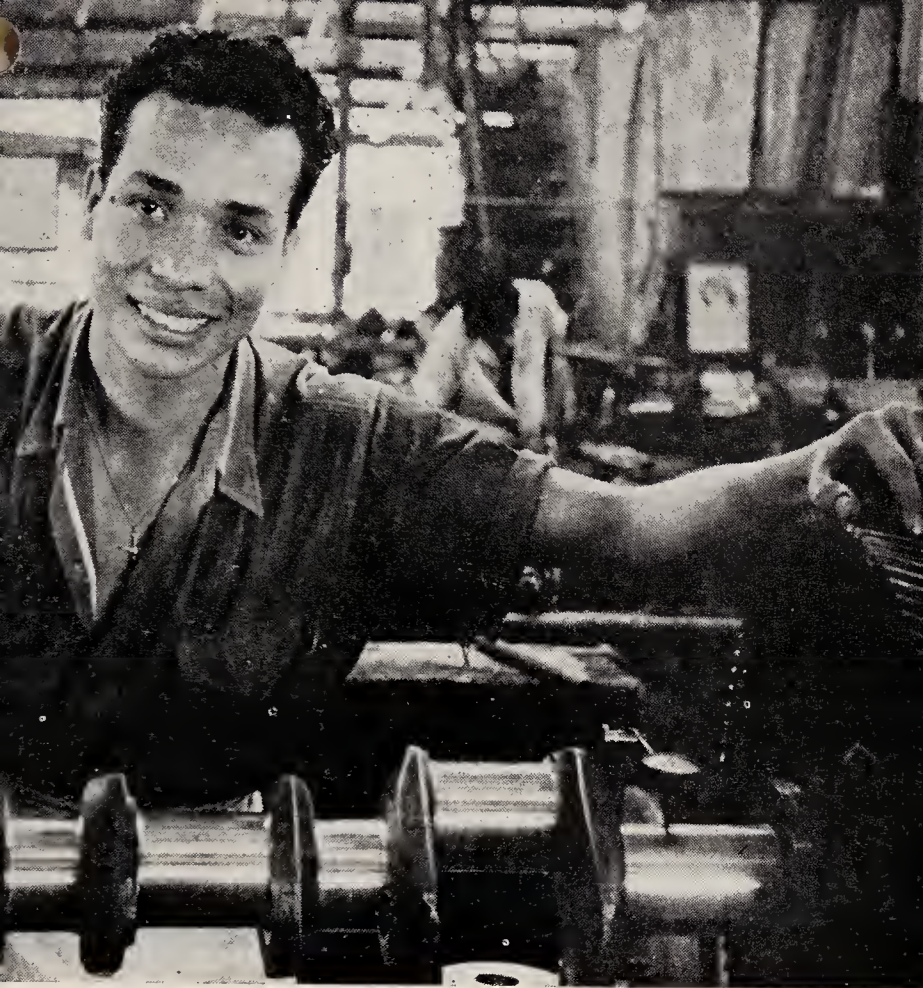


*the
builders:*



The railroad's coming through! Swamp is being drained away; the *medicos* have already knocked out the mosquitoes; the agronomists have checked the soil. This is truly 20th Century pioneering.





In Middle America,
as in New England,
it's the things
of the spirit that unite
a people —
at prayer, at home,
or in the field.

UNITED FRUIT COMPANY



From Oliver Wendell Holmes'
"Autocrat of the Breakfast Table"

"You never need think that you can turn over any old falsehood without a terrible squirming and scattering of the horrid little population that dwells under it.

"Every real thought on every real subject knocks the wind out of somebody or other. As soon as his breath comes back, he very probably begins to expend it in hard words. These are the best evidence a man can have that he has said something it was time to say.

"Dr. Johnson was disappointed in the effect of one of his pamphlets. 'I think I have not been attacked enough for it,' he said; 'attack is the reaction; I never think I hit hard unless it rebounds.'"

CYNIC'S WISDOM

Knowledge is power—if you know it about the right person.

Opposition is the surest persuasion.

He who knows nothing fears nothing.

Wild oats make a bad autumn crop.

The number of a man's widows will be in proportion to the size of his estate.

Don't take the will for the Deed—get the Deed.

The doors of Opportunity are marked "Push" and "Pull."

Charlty is the sterilized milk of human kindness.

The gossip is not always of the swift nor the tattle of the wrong.

Only the young die good.

What can't be cured must be insured.

The danger lies not in the big ears of little pitchers, but in the large mouths.

Kind hearts are more than coronets—few girls can afford to have either.

Never too old to yearn.

The pension is mightier than the sword.

A fool's paradise is nevertheless a paradise.

Shut your mouth and open your eyes—

And you'll need nothing to make you wise.

from *Cynic's Calendar of Revised Wisdom for 1905*

The Lady in the Muddy Street—
 1876

Take care! Do not drag your dress through that mud puddle! Worse and worse! If you take hold of your dress on both sides that way and drag it up so high, you will be set down as a raw country girl. So. Raise it just above the boot, all around, easily, letting it fall again in the old folds. Don't shake it down; it will fall back of itself.

Stop! Don't you see there is a carriage coming? Do you want to be thrown down by the horses? You can run across? Very lady-like indeed! Surely nothing can be more ungraceful than to see a lady shuffle and run across a street. Wait until the way is clear and then walk slowly across.

Do not raise your skirts. It is better to soil them. (You were very foolish to wear white skirts this muddy day.) They are easily washed and you cannot raise all. You will surely be awkward in making the attempt, and probably fail, in spite of all your efforts. True, they will be badly soiled, and you expose this when you raise the dress, but the state of the streets must be seen by all who see your share of the dirt, and they will apologize for your untidy appearance in a language distinctly understood.

Etiquette For Ladies

ISLAND BALL

by Charles G. Wilson

The sea was dressed in azure,

The sunset was in red,

The island was a duchess

With a lighthouse on her head.

The pale stars danced a polka

To the wind's soft roundelay,

And the fisherfleet like mackerel

Skipped across the bay.

The sunset curtsied, rested,

The sea slipped off to bed,

But the duchess sat till morning

With a lighthouse on her head.

Of Men and Mountains

RECENT DEVELOPMENTS IN AGRICULTURAL SCIENCE

FORESTRY AND AGRICULTURE

Figures don't tell any story completely, of course, but we read from a good reliable source, *The Northeastern Logger*, that the forest area in Connecticut has increased about 100 per cent since the Civil War, that at that time forests covered about 30 per cent of the land area in that state, while at the present they cover twice that much. We haven't figures for all the east or for the country state by state, but what these figures show for Connecticut would be largely true of all our central and northeastern states.

What has happened in Connecticut is that much of the farm population moved west to greener pastures or simply to neighboring industrial centres—to shorter hours of labor and more profitable returns (or so it seemed). Whatever the exact figures of forest and agricultural acres, now and previously, we are seeing a growing forest-agricultural policy—national as well as communal and private—that is all to the good. Many states have seen the rapid spread of so-called tree farm plans followed by farmers and other landowners—these plans meaning practices approved by state or county foresters.

The harvesting of timber by great lumber companies, such as the Weyerhaeusers in the West and the Brown Co. of New Hampshire, is carried out under long range plans for forest perpetuation, and this is widely true for farmers and other timber owners.

Forestry management goes hand in hand with agriculture. A plan for forests means a plan for fields. Submarginal, farmed-out, badly eroded land will be returned to the gentle mantle of forests, for example, and fertile areas be reclaimed from forests for agriculture.

PUBLICATIONS—FREE

Your state will have its own publications for the farmer, forester, orchardist, housewife, etc., which may usually be had free of charge. (Ask your county Extension Agent.) Such publications can be supplemented by a vast list of farmers' and homemakers' publications from the United States Department of Agriculture. Write to the Division of Publications, Office of Information, USDA, Washington 25, D.C., or your State Extension Agent—see page 69.

ORCHARDS AND CHEMICAL CONTROLS

The last blossoming season in the apple orchards of New England, at least, was drowned—and preceded and followed by as much rainfall as is often seen in these parts. The result of this was immediate and continued development of bad scab conditions. If there is anything really new that the orchardist has learned it is that the conditions causing scab should be offset, or controlled, before they start. Or if conditions cannot be controlled, then he should set about controlling and eliminating the scab itself before it is really ruinous. We know now from daily radio information from entomologists and agriculturists what the temperature is, is likely to be (and moisture conditions) and therefore how the danger of scab will develop. And we meet it with the almost immediate applications of our fungicides before scab explodes like thousands of fountains from the bottom leaves to the top of all our trees.

A generation ago we were meeting the scab onsets with liquid-lime sulphur, then milder forms of sulphur (in paste form or dry wettable or micronized) or with other materials known variously as Phenyl Mercury, Phygon, Fermate (Ferbaum) and others.

As recommended for the state of New Hampshire by the entomologists and state and extension horticulturists still other materials are suggested as worth a trial this year and these are Capatan (Sr 406), Crag Fruit Fungicide 341 and Phygon dust. And so it goes on the apple scab picture.

As for insecticides: after the petals have fallen and the bees stopped working, the use of lead arsenate with DDT is still respected for everything from Curculio to Codling moth, but, for the ever-increasing mite family, Tepp and Parathion (and they both must be used with masks and gloves), and for aphids—Tepp, Parathion, or Nicotine. Comparatively new materials that are coming into use are Aramite (especially for red mites), Ovotran for use against the

egg and nymphal stages of mites, and Melathon, also a miticide, especially effective against the adults. There is much else new in the apple world that cannot be covered in two paragraphs, including further experiments with the chemical thinning of the apple crop, and the production of constantly improved sprayers and dusters of the concentrate types.

We are looking for someone who will produce a really workable mechanical apple picker. Not as yet—if ever.

THE SOIL ABOUT US

Dr. A. A. Nitikin is director of Agricultural research of the Tennessee Corporation, Atlanta, Georgia, an authority on trace elements in our soils. What he wrote in 1950 in the Southern Seedsman is as important, and to most of us as little known now, as it was then.

Our three major elements (nitrogen—phosphorous—potash), usually the only ingredients of most of our commercial fertilizers, are not usually sufficient to replace in the soil elements that have been lost by erosion, the overuse of the big three element fertilizers, loss of trace elements by crops, acidity, amount of colloidal material in the soil, or organic material (humus).

The table below gives this story and more.

TRACE ELEMENT FUNCTIONS IN PLANT LIFE

Element	Function in Plants	Deficiency Symptoms	Important Deficiency Diseases	Causes of Deficiency in Soil
Copper	1. Seed production. 2. Chlorophyll formation. 3. Oxidative enzyme production.	Dark color followed by possible chlorosis. Wilting. Stunting.	"Yellow tip" of onions. "Dieback" of citrus.	Peat. Organic Sandy leachable Ports-mouth.
Manganese	1. Seed production. 2. Carbohydrate metabolism. 3. Enzymatic action. 4. N.&C. assimilation.	Chlorosis. Green veins. Necrosis. Retarded growth.	"Grey speck" of oats. "Marsh spot" of peas.	High pH. Sandy leachable Over-liming.
Zinc	1. Seed production. 2. Chlorophyll formation. 3. Promotes growth.	Necrosis. Chlorosis. Small mottled leaves. Reduced fruit.	"Frenching" of citrus. "White bud" of corn. "Little leaf" of peach. "Rosette" of pecans. "Bronzing" of tung foliage.	High pH. Over-liming. Sandy leachable.
Iron	Chlorophyll formation.	Chlorosis. Tips and margin remain green.	Chlorosis of gardenias, and other plants.	Calcareous. Peat. Sandy
Molybdenum	Increases N. fixation.	Mottling followed by necrosis of leaf edges. No fruit produced.		Acid

As shown in the above table it can be seen that most of the trace elements help in the formation of chlorophyll—and if the foliage turns pale, it is due to lack of these elements.

Seeds are natural storage vaults—high in copper and zinc, and so for plants grown for seed the insurance of these elements is highly important. Some plants are especially high in manganese. To provide plants with trace elements, they can either be given soluble salts in the soil around them or their foliage sprayed or dusted with neutral salts. Such applications at the proper time and in the proper dosage will help control diseases—copper, for instance, controls blight and zinc certain bacterial diseases such as Bacterial Spot on peaches.

A typical formula for spraying fruit and ornamental trees with neutral trace elements should contain:

- 1 lb. basic copper sulphate
- 2 lbs. neutral manganese compound
- 1 lb. neutral zinc compound
- per 100 gallons spray

A suitable dust should contain:

- 5 lbs. basic copper sulphate
- 10 lbs. neutral zinc compound
- per 100 lbs. dust mixture

The above may be used in one treatment with fungicides and insecticides.

Soluble salts may be recommended for use in combination with regular fertilizers at the following concentrations per ton:

- 20 lbs. copper sulphate
- 40 lbs. Manganese sulphate
- 20 lbs. zinc sulphate

"The blood of the flower is an expression of what is in the seed."

WEEDS AND WISDOM

Lots of things kill weeds nowadays—not the least of which is still mechanical cultivation and the old-fashioned hoe. But if you are considering the treatment of weeds in your potato fields one expert has this to suggest:

Where annual grasses are not troublesome, 2-4-D applied pre or post emergence will do an excellent job of broad leaf weed control, though it does cause a serious distortion of the foliage. Where only broad-leaved weeds are a problem, Dow Selective Weed Killer or Sinox W at rate of one gallon per acre is satisfactory. Where barn grass or other annual grasses are a problem, Premerge or Sinox PE is more satisfactory, killing barn grasses up to height of two inches.

These are dinitros and should be used, unlike the hormone types, before the potatoes merge.

To kill the tops of the potatoes and thus prevent late blight, the use of a rotobearer set high is favored with the additional use of some killer chemical—such as Sodium Arsenite—two gallons to a 40% Sodium Arsenite liquid.

HELPFUL INSECTS

Horticulture summarizes some of the latest in the discovery and use of bugs, etc., that man can use to fight other insect pests:

"From the field of horticultural research comes the report that entomologists are using helpful insects to control destructive pests. Among them are foliage-feeding beetles from Australia that were used to destroy 100,000 acres of the Klamath weed in California.

"Likewise an insect parasite of the citrus blackfly, introduced from India into citrus-growing areas in Mexico, shows promise of controlling this pest and reducing its threat against the citrus areas of the United States.

"At the Connecticut Agricultural Experiment Station, Dr. Raimon L. Beard has been working with a tiny wasp that poisons insects a thousand times its own size with the venom of its sting. The venom kills its victim by rendering the muscles unresponsive to nerve stimulation."

STATE EXTENSION DIRECTORS

Consult these men about your garden and farm problems. They know the answers. *Courtesy Lester A. Schlup, Chief, Division of Extension Information, U.S. Dept. Agr., Wash. 25, D. C.*

- Alabama: P. O. Davis, Alabama Polytechnic Institute, Auburn.
- Arizona: C. U. Pickrell, University of Arizona, Tucson.
- Arkansas: (Lippert S. Ellis, College of Agriculture, University of Arkansas, Fayetteville)
*(C. A. Vines, Associate Director, 421 W. Capitol Ave., Little Rock).
- California: Wayne F. Weeks, Acting Dir., College of Agriculture, University of California, Berkeley 4.
- Colorado: James E. Morrison, Colorado Agricultural and Mechanical College, Fort Collins.
- Connecticut: R. G. Hepburn, Associate Director, University of Connecticut, Storrs.
- Delaware: G. M. Worrlow, Director, University of Delaware, Newark.
- Florida: H. G. Clayton, Agricultural Extension Service, Experiment Station, Gainesville.
- Georgia: Dr. C. C. Murray, Georgia State College, Athens
*Walter S. Brown, Georgia State College of Agriculture, Athens, Associate Director.
- Idaho: D. R. Theophilus, College of Agriculture, University of Idaho, Moscow.
*(C. O. Youngstrom, Assistant Director, State House, Boise)
- Illinois: R. R. Hendelson, Dir., College of Agriculture, University of Illinois, Urbana.
*W. G. Kammlade, Associate Director, College of Agriculture, University of Illinois, Urbana.
- Indiana: H. J. Reed, Purdue University, LaFayette.
*L. E. Hoffman, Associate Director, Purdue Univ., LaFayette.
- Iowa: Floyd Andre, Iowa State College of Agriculture and Mechanic Arts, Ames.
- Kansas: L. C. Williams, Kansas State College of Agriculture and Applied Science, Manhattan.
- Kentucky: Frank J. Welch, College of Agriculture, University of Kentucky, Lexington 29.
T. R. Bryant, Assoc. Dir.,
- Louisiana: H. C. Sanders, Louisiana State University and Agricultural and Mechanical College, University Station, Baton Rouge 3.
- Maine: A. L. Deering, College of Agriculture, University of Maine, Orono.
- Maryland: Dr. James Gwin, Univ. of Maryland, College Park.
- Massachusetts: James W. Dayton, Associate Dean and Director of Extension Service, Massachusetts State College, Amherst.
- Michigan: D. B. Varner, Michigan State College of Agriculture and Applied Science, East Lansing.
- Minnesota: Paul W. Miller, Department of Agriculture of the University of Minnesota, University Farm, St. Paul 8.
- Mississippi: Clay Lyle, Mississippi State College, State College
*M. S. Shaw, Ass't. Dir. Mississippi State College, State College.
- Missouri: J. W. Burch, College of Agriculture, University of Missouri, Columbia.
- Montana: N. E. Beers, Acting Dir., Montana State College of Agriculture and Mechanic Arts, Bozeman.
- Nebraska: W. V. Lambert, Director, College of Agriculture, University of Nebraska, Lincoln 1.
*E. W. Janike, Acting Associate.
- Nevada: C. B. Hutchison, Agricultural Extension Division, University of Nevada, Reno.
- New Hampshire: L. A. Bevan, University of New Hampshire, Durham.
- New Jersey: (W. H. Martin, State College of Agriculture and Mechanic Arts of Rutgers University, New Brunswick)
*(L. G. Cook, Associate Director, College of Agriculture, New Brunswick)

New Mexico:	Robert A. Nichols, New Mexico College of Agriculture and Mechanic Arts, State College.
New York:	L. R. Simons, New York State College of Agriculture, Ithaca.
North Carolina:	David Weaver, State College Station, Raleigh.
North Dakota:	E. J. Haslerud, North Dakota Agricultural College, State College Station, Fargo.
Ohio:	W. B. Wood, Actg. Dir., College of Agriculture, Ohio State University, Columbus 10.
Oklahoma:	Shawnee Brown, Oklahoma Agricultural and Mechanical College, Stillwater.
Oregon:	F. Earl Price, Oregon State Agricultural College, Corvallis. *F. L. Ballard, Associate Director.
Pennsylvania:	H. R. Albrecht, Pennsylvania State College, State College.
Rhode Island:	H. O. Smart, Rhode Island State College, Kingston.
South Carolina:	D. W. Watkins, Clemson Agricultural College of South Carolina, Clemson.
South Dakota:	George I. Gilbertson, Director, South Dakota State College of Agriculture and Mechanic Arts, Brookings.
Tennessee:	J. H. McLeod, College of Agriculture, University of Tennessee, Knoxville 7.
Texas:	G. G. Gibson, Director, Agricultural and Mechanical College of Texas, College Station.
Utah:	Dr. Carl Frischknecht, Utah State Agricultural College, Logan.
Vermont:	J. E. Carrigan, College of Agriculture, University of Vermont, Burlington.
Virginia:	L. B. Dietrick, Virginia Polytechnic Institute, Blacksburg.
Washington:	R. B. Tootell, Box 328, Pullman.
West Virginia:	J. O. Knapp, College of Agriculture, West Virginia University, Morgantown.
Wisconsin:	H. L. Ahlgren, Associate Director, College of Agriculture, University of Wisconsin, Madison 6.
Wyoming:	George H. Starr, College of Agriculture, University of Wyoming, Laramie.

*All general correspondence is conducted by the associate director.

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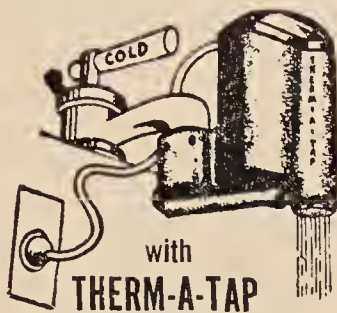
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 - No Pullman cars.
 - No dining cars.
 - No 60 miles an hour.
 - No 22-knot steamers.
 - No 30-knot torpedo boats.
 - No free education.
 - No breech loading guns.
 - No Maxim guns.
 - No Suez Canal.
 - No lady cyclists.
 - No lady doctors.
 - No lady clerks.
 - No lady barbers.
 - No lady golfers.
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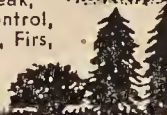
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'QUAKE FORECAST

Earthquake periods are on the Moon's phase. The greatest strain on the earth is at Full, New, First Quarter, Last Quarter, and if the Moon is north of the equator the northern Hemisphere is most likely to be affected, and when in the south the southern Hemisphere. The periods are 72 hours each side of the time of Full and New Moon, and 24 hours each side of the time of Last and First Quarter Moon. About 80% of earthquakes occur in these periods. Earthquakes can occur at any time or at any place, but the Sun's rays are reflected from the Moon on the Earth with a greater strain at these periods.

Very truly yours,
Dr. H. Field Smith,
St. Petersburg, Fla.

From these tables you will note the significant possible earthquake dates in 1954 are as follows:

January 10, 11, 16-20.
February 9, 10, 15-19.
March 10, 11, 17.
April 9, 10.
May 1-4, 8, 9, 31.
June 9, 10, 22-25, 30.
July 20-24, 29, 30.
August 18-22, 28.
September 17-21.
October 11, 12, 16-20.
November 9, 10, 15-19.
December 3-5, 14-16.

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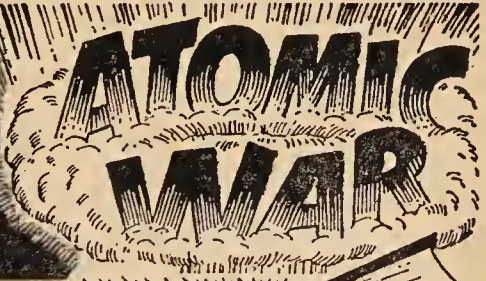
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PRINCIPAL HOLIDAYS, ETC. IN 1954

America has no nationwide holidays. Each state determines its own. In the table that follows (*) indicates those quite generally observed by all states; (**) indicates those for only certain states; and (***) indicates days usually observed in some localities though probably not observed as holidays. Only continental United States is covered here. These dates are also all indicated on right hand calendar pages (13-35) in abbreviated form.

Jan. 1 (*) New Year's Day	May 10 (**) Memorial Day (N. C. & S. C.)
Jan. 8 (**) Battle of New Orleans	May 15 (**) Armed Forces Day
Jan. 19 (**) Robert E. Lee's Birthday (South)	May 20 (**) Mecklenburg Day (N. C.)
Jan. 26 (**) MacArthur Day (Ark.)	May 30 (*) Decoration or Memorial Day
Jan. 30 (**) F. D. R.'s Day	June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., Ky., La., Miss., S. C., Tenn., Tex. & Va.)
Feb. 12 (*) Abraham Lincoln's Birthday	June 14 (**) Flag Day (Mo. & Pa.)
Feb. 14 (**) Admission Day (Arizona)	June 15 (**) Pioneer Day (Idaho)
Feb. 14 (*** Valentines Day	June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
Feb. 15 (*** Susan B. Anthony Day	June 20 (**) West Virginia Day
Feb. 22 (*) George Washington's Birthday	June 20 (*** Father's Day
Mar. 1 (**) State Day (Nebraska)	July 4 (*) Independence Day
Mar. 2 (**) Mardi Gras (Ala., Fla., La.)	July 13 (**) Forrest's Day (Tenn.)
Mar. 2 (**) Texas Independence Day	July 24 (**) Pioneer Day (Utah)
Mar. 7 (**) Burbank Day (Cal.)	Aug. 1 (**) Colorado Day
Mar. 15 (**) Jackson Day (Tennessee)	Aug. 14 (**) Victory Day (Ark., R. I.)
Mar. 17 (**) St. Patrick's or Evacuation Day (Boston)	Aug. 16 (**) Bennington, Vt. Battle Day
Mar. 25 (**) Maryland Day	Aug. 30 (**) Huey Long Day (La.)
Apr. 1 (**) State Election (Michigan)	Sept. 6 (*) Labor Day
Apr. 12 (**) Halifax Day (N. Car.)	Sept. 9 (**) Admission Day (Cal.)
Apr. 13 (**) Jefferson Day (Ala., Mo., Neb., Okla., Va.)	Sept. 12 (**) Defender's Day (Md.)
Apr. 14 (*** Pan American Day	Sept. 13 (**) Election Day (Me.)
Apr. 16 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)	Sept. 16 (**) Cherokee Day (Okla.)
Apr. 19 (**) Easter Monday (N. C.)	Sept. 17 (*** Citizenship Day
Apr. 19 (**) Patriots' Day (Me., Mass.)	Sept. 28 (*** Am. Indian Day
Apr. 21 (**) San Jacinto Day (Texas)	Oct. 4 (**) Missouri Day
Apr. 22 (**) Okla. Day	Oct. 10 (**) Okla. Hist. Day
Apr. 26 (**) Memorial Day (Ala., Fla., Ga., Miss.)	Oct. 11 (**) Pulaski Day (Neb.)
Apr. 26 (**) Fast Day (N. H.)	Oct. 12 (*) Columbus Day
Apr. 30 (*** Arbor Day	Oct. 24 (*** United Nations Day
May 4 (**) R. I. Independence Day	Oct. 31 (**) Nevada Day
May 9 (*** Mother's Day	Nov. 1 (**) All Saints' Day (La.)
	Nov. 2 (*) Election Day
	Nov. 4 (**) Will Rogers Day (Okla.)
	Nov. 11 (*) Armistice Day
	Nov. 23 (**) Repudiation Day (Md.)
	Nov. 25 (*) Thanksgiving Day
	Dec. 7 (**) Delaware Day
	Dec. 21 (*** Forefather's Day
	Dec. 25 (*) Christmas Day

MONKEY, CELESTIAL FORE-RUNNER FOR MAN?

The monkey, for those who hold with Darwin at least, made the way for man on earth. Missing link or not, there are those who see us first as geatonic globules, yearning, growing, reaching, finally screeching into our present form. But the monkey got there first. His coconut fun in jungle trees, somewhat abstrusely perhaps, may be the first beginnings of modern baseball. But those days are not these.

Man is now concerned with outer space, and according to an Air Force disclosure in the *American Rocket Society News* of January, 1953, the monkeys also have been there first . . . leastwise into 200,000 feet of it. Man still groping and earthbound considers something like 70,000 as his best effort.

Unfortunately, although the monkeys survived this initial experience out there, they could not chatter about it afterwards. It seems that the protection of instrumentation necessary to record their physiological reactions during the trip in an Aerobee Rocket required anesthetization of the beasts. But a couple of mice went along too. One of them, floating free in a smooth drum, is reported to have completely lost its sense of direction and orientation. The other, in a drum containing a small shelf, was able to cling to it, orient himself, command his body at will, and did not float in space. No unusual effects were experienced however by either monkeys or mice from their brief initial acceleration of 15 g, and a longer force of 3 to 4 g which lasted for 15 seconds. (Whether 15 g is the equivalent of one zombie, and 3 to 4 g the same as 3 or four double martinis the Air Force does not choose to disclose.) We take it there is some similitude in view of the official caution at the end of the Air Force report: "Physiological results obtained with monkeys and mice can only be applied with caution to men."

As a result of these things no doubt one of these days we will see monkeys dressed in chef's outfits riding along Dr. Vincent J. Schaefer's newly discovered "mysterious wind tunnel in the sky" some 20,000 to 50,000 feet in the air at speeds from 80 to 200 miles per hour. Perhaps as "Good Humor" boys they will be serving ice cream discs in flying saucers to visitors from stardom along route.

That monkeys by and large, however, are not taking to these experiments nearly as much as man expects them to is seen in the following Associated Press Despatch which appeared last January in *The Boston Post*:

NEW YORK, Jan. 31 (AP)—"A cargo plane landed at Idlewild Airport from London today with 53 cases of Rhesus monkeys consigned to various hospitals for research purposes.

The door was opened and out stepped one, two, three—11 little monkeys before somebody slammed the door shut. The 11 monkeys took off in 11 different directions.

Three climbed the airport's 10-story control tower. Others hid under parked cars. Men chased them, but all the monkeys eventually got away. Most were last seen heading for the suburbs.

Several hours later, however, police reported a monkey loose many miles away on the Bowery—Manhattan's Skid Row. They were uncertain whether it came from Idlewild, doubting that any monkey could go so far so fast."

There is still talk of course about rocket trips to the moon. Doctors of Space Medicine, like Dr. Hubertus Strughold at the Randolph Airbase in San Antonio, Texas, assures us that he can get passengers there alive if rocket makers can get the ships there. And J. P. Colbert of the University of Nebraska is confident that before this century is up the trip will take but a mere nine hours out, with two hours at the moon for sight-seeing, and thirteen hours in which to coast back. It could be of course that these monkeys, like ourselves, want no part of any such trip—Skid Row being far more fun.

The final report of the Ad Hoc Space Flight Committee of the American Rocket Society in these matters, without any consultation with the monkeys or the mice, may be summarised as follows:

a. Space flight is a basic challenge to the progress of mankind and will ultimately prove to be worth the cost and effort required . . .

b. Successful flight from the earth and return of satellite, lunar, and interplanetary space ships will some day be technically feasible.

c. The successful development of a rocket-propelled space ship requires the successful solution of many basic problems in the development of long-range guided missiles.

d. For the purpose of building up experience and knowledge in an orderly fashion, the following projects should be emphasized and supported in the sequence indicated: High altitude sounding rockets, ground to ground unmanned guided vehicles; orbital (satellite) unmanned vehicles; manned, returnable, lunar, or interplanetary vehicles.

SUPERSTITION, INTERPLANETARY AND OTHERWISE!

According to the British Publication "Prediction," superstition is a major American industry. "More than 10,000,000 people," says a report, "are carrying rabbits' feet in their pockets, and 3,300,000 are sold each year. Four years ago an enterprising business man found a way to grow four leaf clover in the Panama Canal Zone. Today it is said 30,000,000 people buy them every year. But the rabbits' feet devotees are wasting their money, and their faith. If the legend is true that 'the lucky rabbit's foot must actually be the left hind leg of a wild hare shot with a silver bullet in a graveyard in the dark of the moon on Friday the 13th by a red-haired, cross-eyed, bowlegged man riding a white horse.'"

Which, with our knowledge of how the British tongue is often found in the cheek, seems to us somewhat more amusing than the "stimulating conception" of Major Joseph Schaffler in *Weltall-Elektrizität und Wetter* that the sun and each of the planets is an electro-magnet and that their mutual influence on each other accounts for cyclones, and deep depressions which cause our weather. Just how "stimulating" such ideas can be is revealed in studying this whole school of "Planetary Precessional Trend Lines." One member of it was so stimulated by it during our study he purported to forecast months, years ahead, all the troublesome, turbulent spots on the earth's immediate surface which aeroplanes should avoid. He was perfectly sincere in stating that, had his system been consulted, practically every major air disaster in years gone by could have been avoided. The last we saw of him he was headed for the White House.

More appalling than this, however, if an article in *TIME* Magazine is being quoted correctly for us, is the construction of "85% accurate weather forecasts by the Radio Corporation of America with the aid of Astrology . . . by studying the planetary aspects to foresee when exceptionally strong magnetic storms are likely to disturb wireless communication." It seems amazing to us that RCA, an American institution which owes so very much to hard headed practical science should allow itself any sustained beliefs, in the fantastic and the fanciful.

But then we can not argue that some precedent is not to be found for this sort of reasoning in an authority of far greater stature than is ours. For none other than Benjamin Franklin in the Preface to his *Poor Richard's Almanac* for 1739 put himself on record as perhaps the founder of this school.

"Ignorant men wonder how," he wrote, "we astrologers foretell the weather so exactly unless we deal with the old black devil. Alas! 'tis as easy as—. For instance, the stargazer peeps at the heavens through a long glass. He sees perhaps Taurus or the Great Bull in a mighty chase, stamping on the floor of his house, swinging his tail about, stretching out his neck, and opening wide his mouth. 'Tis natural from the appearances to judge that this furious bull is puffing, blowing, and roaring. Distance being considered and time allowed for all this to come down—there you have wind and thunder.

"He spies Virgo . . . judges rightly what she's about . . . finds that next Spring we shall have a fine April shower."

Would that the modern substitution of prudery for the straight unvarnished English of a few centuries ago did not prevent us from reprinting the preceding paragraph of Franklin's in full!

MARS NEARS NEAREST APPROACH TO THE EARTH

When Mars comes to opposition this year on June 24th, it will be about 40,000,000 miles away. This is a prelude to the next opposition which will occur late in August, 1956, when the earth and Mars will be closest together, even nearer one another than they will be in 1954.

These unusually close approaches of Mars and the earth are awaited by astronomers, since they are particularly opportune times to study the planet. Oppositions of Mars are always the best times for such study, but Mars can be as far away as almost 63,000,000 miles at one opposition and as close as 35,000,000 miles at another. Its opposition in 1956 will be one of the latter.

These particularly close approaches occur at intervals of 15 or 17 years. Between one such and the next, major developments in scientific equipment often occur. The new equipment developed since Mars' last near approach to the earth may well reveal important new information not only at this year's opposition, but especially at that two years hence.

For those who are not astronomers, these near approaches of Mars are visually exciting, since Mars reaches great brilliance at such times.

HISTORICAL NARRATIVES

OF THE MOST NOTED CALAMITIES, ON THE OCEAN, 1588-1833

Ye lost companions of distress, adieu!
Your toils and pains, and dangers are no more,
The tempest now shall howl unheard by you,
While ocean smites in vain the trembling shore.

FALCONER

BY CHARLES ELLMS, & A. & C. B. EDWARDS, 1836.



LADY HOBART ON ICE, 1803
(Grand Banks)



THE PHOENIX'S HURRICANE, 1780
(Cuba)



MEDUSA STRANDED, 1817 (Africa)



THE KENT AFIRE, 1827 (Bay of Biscay)



HALSEWELL'S ROUND HOUSE, 1786
(Seacombe)



LE JACQUES' LEAKS, 1553 (Off Brazil)



MAN OVERBOARD, 1816 (Finisterre)



HEN COOP RAFT, 1817 (Arguin Bank)



THE ALBION WRECK, 1822 (Ireland)



HOTTENTOT PRIZE, 1782 (Cafiraria)



THE PRINCE AFIRE, 1752 (France)



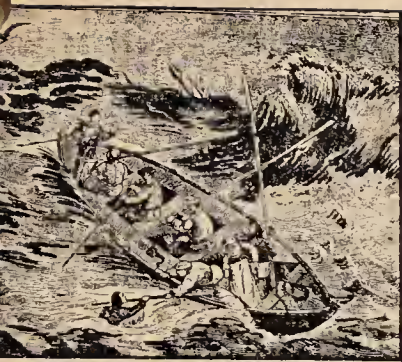
MR. MERITON, 1786 (Purbeck)



LIFEBOAT, 1790 (Tynemouth)



NEWFOUNDLAND RESCUER, 1830



ISABELLA'S CREW, 1833 (Hastings)



MARGARET WRECK, 1810 (Salem)



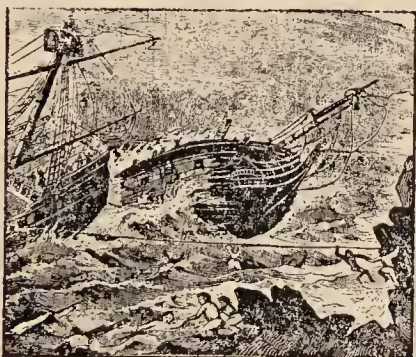
GOD SAVES CAP'N RILEY, 1816 (Africa)



PEROUSE'S SHALLOPS, 1786 (Patagonia)



THE CENTAUR, 1782 (Atlantic)



THE GROSVENOR, 1782 (Good Hope)



McGREGOR, (Memphis) 1830



BRIG POLLY, (Cape Cod) 1811

WORD CHARADES

(Answers on page 109)

1

My first to do with funds we
have to spare,
My next is one we cherish with
much care;
My last will shut us in or set us
free,
Just as we use it as you soon
will see.
My whole all men of science
love to do,
And find it ever well repays
them to.

2

In my first we sometimes ride,
In my second oft confide;
And in my whole we take a pride
If it is a beauty.
In my first we move with speed,
About my second fret indeed;
But keep my whole from dust
well freed
For it is a duty.

3

From toils of life and from the
noonday heat
My first and second yield a calm
retreat,
Inviting each to stillness and to
sleep,
At once the brows to cool, the
sense to steep.
But he would combine the two
in haste,
Venturing the sweets of both at
once to taste,
May rest so long as never more
to rise,
May sleep till death forever close
his eyes.

4

My first obstructs the river's
rapid course,
And harnesses for man its
mighty force;
My next steals o'er each mortal
day by day,
And fast his useful moments
glide away.
From failure of my first my
whole ensues,
Sweeps desolation o'er the dis-
tant views.

5

My first divides with rest and
motion;
Conveys to please a great pro-
portion.
My last a word of trifling sound
May be a horse, a cat, or hound.
My whole, of blue, green, brown
or red,
Becomes worn out by constant
tread.

Edith Finney

6

My lovely first a general glad-
ness spreads

When o'er the lawn the blithe-
some step she treads.
Cheered by her smile the flowers
around her spring,
In grateful strains the feathered
warblers sing.
My next with danger threatens
the approach
Of those who would upon its
bounds encroach,
Not so my so my whole 'round
which at close of day
The youthful peasants join in
gambols gay.

7

My first a friend, companion,
guide,
Is loving staunch and cheery
My second has a cleansing side;
My third denotes a theory;
My whole I hope is held by few,
To bore and make us weary.

8

I stood beside the time worn mill
And gazed upon my first
While 'gainst its side the waters
still
In maddened fury burst.
Upon the mill I turned my eyes
And viewed its crumbling wall,
My second I saw without sur-
prise
Ere long would cause its fall.
For storm and flood, time and
decay
Had vexed the miller's soul,
His trembling lips could scarce
portray
The greatness of my whole.

9

My first and my second are
yellow as gold;
My last is swift and airy.
My whole darts over the verdant
fields
As daintily as a fairy.

Edith Finney

10

My first my second and my
whole,
Mean the same thing repeated
o'er;
And yet, although it seems
absurd,
Each of them too means some-
thing more.

11

My first is neither bad nor good,
May please or may offend you;
My second is a thirsty mood
May very much befriend you.
My whole, though termed a
cruel word,
May yet appear a kind one;
It often may with joy be heard,
With tears may often blind one.

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OLD-FASHIONED PUZZLES

(Answers on page 100)

Conundrums

1. What is that which divides by uniting and unites by dividing?
2. Why is a knock at the door like an overcoat?
3. What is that which sometimes kicks though it has no feet?
4. When is a man in debt over his ears?
5. Why are bad boys like old trunks?
6. When should a newspaper be the sharpest?
7. When is boat like a witness summoned to court?
8. What is that which no one wants and no one wants to lose?

Riddles

1

None can locate the subject of my riddle,
For all the world would seek its place in vain.
Cut it asunder almost in the middle,
And in our very midst its place is plain.
An aching void, an absolute negation,
Into the opposite extreme it breaks;
With just a gap to mark their new relation
Each letter still the same position takes.

2

Why should we seek strange enigmatic texts
For subjects fit to puzzle and perplex,
For what we daily think on nearly viewed
Abounds with riddles little understood.
Such then am I; nor need I a disguise,
Being already veiled from human eyes.
I'm still approaching nearer, ever near,
Yet none of me can ever say, 'tis here.
And though sufficient evils me attend
The hopes of thousands still on me depend.
For me the miser hoards his golden heaps,
For me the devotee pale vigils keeps.
Though I could never yet be said to be,
Yet what was me you every day may see.

3

Nature the richest of her treasures gave,—

The artful structure of my frame to build,
Tho' I no proper life or motion have
Mankind to me their lawful homage yield.
The hand that made me ne'er my right possessed,
The hands that gave me ne'er my owners were.
Nor they who won me hardly ever guessed
How dearly bought their wished-for conquests are.

Anagrams

1

On me the records of the years depend,
And when I die all history has an end;
Turn me about and I will then proclaim,
With cries of anguish or with breath of fame,
That deeds that else might lie within the tomb
Of silence waiting for the day of doom.
Turn me again and I become so small
You scarcely can discover me at all;
Turn me once more and then you will peruse
In plainest prose some striking bit of news.

2

A tender sapling I am found,
Erect and rooted in the ground,
With head to every breeze inclined;
But turn me and I leave my bed
With mantling branches on my head,
And travel fleetly than the wind.

Problems

1. What number of two digits is that which is the same reversed whose square, cube, and fourth power are each the same when reversed?

2. The owner of a set of books of uniform thickness and binding, and standing in regular order upon the shelf, found on consulting volumes one and two that a worm had eaten in a straight line through from the first page of volume one to the last page of volume two. If the pages of each book were together one inch in thickness, and each cover was one-eighth of an inch thick, what was the distance bored?

CONCENTRATED MILK

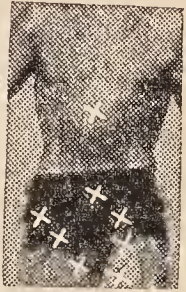
The May 1951 Monthly Review of the Federal Reserve Bank of Boston gave an interesting account of the introduction of concentrated milk into the Boston market for the first time on March 1 of that year. At that time savings of from 2½¢ to 3½¢ per quart on homogenized Vitamin D fortified milk (1½¢ to 2½¢ on regular milk) were apparent at retail outlets. Some 5 to 6¢ a quart savings were possible at cash and carry stores. Fluid milk of excellent quality and taste is obtained by adding two parts water. Seems like an excellent idea — especially for towns where trips to the store are infrequent — and nowadays, deliveries are almost never. Since then, however, we have not heard anything more about it. Wonder why.

LONGEST ECLIPSE

According to a United Press release from Bangkok what may be a record total eclipse of the sun will be seen over Thailand on June 20, 1955. It will last for seven minutes or according to Thai astronomers — longer than any during the past 2000 years.

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State	Op. Rd. Speed Max. (R—rea- sonable)	Date new license plates can be used	Driving license* Mini- mum age	Gas- line tax	Percent sales tax	Period of stay ¹	Safety respon- sibility law	Certifi- cate of title required
Alabama.....	R	Oct. 1	16	\$.06	1	Reciprocal	A	no
Arizona.....	60	Dec. 15	18	.05	2	³	A	yes
Arkansas.....	60	Jan. 1	18	.065	2	30 days	A	yes
California.....	55	Jan. 1	16	.045	3	³	A	yes
Colorado.....	60	On issue	16	.06	2	Reciprocal	A	yes
Connecticut....	45	Feb. 15	16	.04	2	Reciprocal	A	no
Delaware.....	55	3mos.bth.	16	.05	...	Reciprocal	A	yes
D. C.....	25	Mar. 1	16	.05	...	Reciprocal	A	yes
Florida.....	60	Jan. 5	16	.07	...	Reciprocal	A	yes
Georgia.....	55	Jan. 1	16	.06	3	30 days	A	no
Idaho.....	R	Dec. 15	16	.06	...	Reciprocal	A	yes
Illinois.....	R	On issue	15	.05	2	Reciprocal	A	yes
Indiana.....	R	Jan. 2	16	.04	...	60 days	A	yes
Iowa.....	R	Dec. 1	16	.04	2	Reciprocal	A	no
Kansas.....	R	Jan. 1	16	.05	2	³	D	yes
Kentucky.....	60	Dec. 29	16	.07	...	Reciprocal	A	⁶
Louisiana.....	60	Jan. 1	15	.07	2	Reciprocal	A	yes
Maine.....	45	Dec. 25	15	.06	2	Reciprocal	A	no
Maryland.....	50	Mar. 1	16	.06	2	Reciprocal	C	yes
Massachusetts	40	Jan. 1	16	.05	...	Reciprocal	A	no
Michigan.....	R	On sale	16	.06	3	90 days	A	yes
Minnesota.....	60	Nov. 1	15	.05	...	Reciprocal	A	yes
Mississippi....	60	Nov. 1	17	.08	2	³	A	no
Missouri.....	R	On issue	16	.03	2	Reciprocal	A	yes
Montana.....	55	Jan. 1	15	.06	...	30 days	A	yes
Nebraska.....	60	Jan. 1	15½	.06	1 ¹	³	A	yes
Nevada.....	R	Dec. 1	16	.055	...	No limit	A	yes
New Hampshire	50	Mar. 1	16	.05	...	Reciprocal	A	no
New Jersey....	50	Mar. 1	17	.03	...	Reciprocal	A	yes
New Mexico....	60	Dec. 15	14	.06	2	90 days	B	yes
New York.....	50	Jan. 1	18	.04	...	Reciprocal	A	no
North Carolina	55	Dec. 1	16	.07	3 ¹¹	Reciprocal	B	yes
North Dakota..	50	On issue	16	.05	2	Reciprocal	A	yes
Ohio.....	50	Mar. 1	16	.04	3	Reciprocal	A	yes
Oklahoma.....	65	Dec. 11	16	.065	2	60 days	A	yes
Oregon.....	55	On issue	16	.06	...	Reciprocal	A	yes
Pennsylvania..	50	Mar. 15	16	.05	...	Reciprocal	A	yes
Rhode Island..	50	Mar. 1	16	.04	2	Reciprocal	A	no
South Carolina.	55	Sept. 18	14	.07	...	90 days	A	no
South Dakota..	60	Jan. 1	15	.05	3 ¹²	90 days	D	yes
Tennessee.....	R	Mar. 1	16	.07	2	30 days	A	yes
Texas.....	60	Feb. 1	16	.06	2	Reciprocal	A	yes
Utah.....	60	Dec. 15	16	.05	2	Reciprocal	A	yes
Vermont.....	50	Mar. 1	18	.05	...	Reciprocal	A	no
Virginia.....	55	Mar. 15	15	.06	...	60 days	A	yes
Washington....	50	Nov. 15	16	.065	3	Reciprocal	A	yes
West Virginia..	55	June 20	16	.05	...	90 days	A	yes
Wisconsin.....	65	On issue	16	.04	...	Reciprocal	A	yes
Wyoming.....	60	Dec. 1	15	.07	2	90 days	A	yes

*Applies to nonresidents. The term "reciprocal" means that the state will extend to a nonresident the identical privileges granted by his home state to nonresident motorists. In some states visitors must register within a specified time. In most states persons who intend to reside permanently must buy new plates and secure new driving license at once, or within a limited period. Acquisition of employment or placing children in public school is often considered intention to reside permanently.

sNone on used cars.

sUntil expiration of home registration.

sThree months before current registration expires.

sUse tax on new cars, first registration of used cars.

sBill of sale must be filed.

sPermit showing compliance with state compulsory liability insurance law must be obtained after 30 days.

ss\$15 maximum.

ssRegistry tax on first registration in state.

South Dakota does not require. All other states do.

Eleven states increased Gas or Sales Tax from 1952 for 1953. Six more either have or are considering increases for 1954.

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B. "Future proof" type.

C. Compulsory.

D. Old "S-R" type.



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DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Courtesy: State Commissioners

Open seasons include both dates, "Rabbit" includes "bare"; "quail" includes "partridge" in South; "grouse" includes Canada grouse, sharptailed, ruffed (known as partridge in North and pheasant in South) and other members of family except prairie chickens, ptarmigan and sage hen. As many states do not complete laws for 1953-54 until after our press date, VERILY in every case for changes even though the changes from year to year are not as a rule sensational. Limits are daily except those in italics which are seasonal.

JUNE 15, 1953

♂ males only. † local exceptions. ‡ non-resident exceptions. # Pounds.

State and Species	Seasons	Limits, Season	State and Species	Seasons	Limits, Season
Alabama			Calif. (cont.)		
Deer	Nov. 20-Jan. 1 † ♂	3	Catfish, shad	No closed season	15
Rabbit	Oct. 16-Feb. 20	6	Colorado		
Squirrel	{N-Oct. 15-Jan. 15	6	Deer	} Oct. 15-31†	1
Muskrat (fur),	{8-Nov. 1-Jan. 1	6	Elk ♂		1
Otter			Bear		1
Quail	Nov. 20-Jan. 31	8	Antelope	Oct. 13-15-Nov. 7-9	1
Turkey	Nov. 22-Feb. 20	8	Quail	Not set	8
Bass	Special	6	Pheasant	Not set	3
White bass	No closed season	10	Rabbit	Oct. 15-Dec. 31	5
Bream	No closed season	15	Trout	May 23-Oct. 21	10
Crappie, wh. pch.	No closed season	30	White Fish	May 23-Oct. 21	6
Jack Salmon	No closed season	20	All other fish	(Open all year)	to
W-eye pike	No closed season	10			10
	No closed season	15			
Alaska			Connecticut		
Bison	Oct. 1-15	1	Deer	Dec. 1-Jan. 31	2
Deer	{E. Aug. 20-Nov. 22 ♂	1	Rabbit	Nov. 1-Dec. 31	30
	{W. Aug. 20-Nov. 15 ♂	1	Squirrel	Oct. 17-Nov. 28	30
	{E. Sep. 15-30 ♂	1	Quail	Oct. 17-31	3
Moose	{W. Sep. 1-20, Dec. 1-20	1	Pheasant ♂	Oct. 17-Nov. 28	15
			Grouse	Oct. 17-Nov. 28	15
Bear, br. & grz.	Sept. 1-June 30†	2	Raccoon	Oct. 17-Dec. 31	20
	{E. Sept. 1-Jan. 20	2	Trout	Apr. 16-July 15	10
Bear, black	{W. No closed season	3	Lake trout	Apr. 16-Oct. 31	3
Caribou	Special Zones	2	Pickrel	Apr. 16-Feb. 9	6
	{E. Aug. 20-Nov. 22	1	Wall-eye	Apr. 16-Feb. 9	6
Mountain goat	{W. Sep. 1-Oct. 31	1	Bass, black	July 1-Oct. 31	10
Mountain sheep	Aug. 20-31†	1	Bass, striped	Apr. 16-Feb. 9	10
Rabbit	Sept. 1-Mar. 31†	10	Perch	Apr. 16-Feb. 9	15
Grouse &	Aug. 20-Jan. 31	10	Salmon, sockeye	Apr. 16-Aug. 31	5
Ptar'g'n	Aug. 20-Apr. 15	10	Shad	Apr. 16-July 15	
Trout & grayling	†	15	Alewives	Apr. 1-Jun. 15	
Arizona			Delaware		
Elk	Nov. 14-29	1	Rabbit	Nov. 15-Dec. 31	6
Deer	Oct. 23-28†	1	Squirrel	Sept. 15-Nov. 1	6
Rabbit	No closed season	6	Quail	Nov. 15-Dec. 31	12
Javelina	Feb. 14-28	1	Raccoon }		
Antelope	Sept. 26-29-Oct. 3-6	1	Opossum }	Nov. 1-Jan. 31	
Buffalo	Nov. 10†	1	Pheasant	Nov. 15-Dec. 31 ♂	6
Turkey	Oct. 9	1	Bass	June 25-Feb. 1	6
Quail	Nov. 28	10	Pike, pkl.,		
Trout	May 5-Sept. 30	10	w. eyed pike	June 25-Mar. 1	6
Horned Toads	Closed		Trout	Apr. 16-Aug. 15	6
			Shad	Mar. 1-Jun. 10	
Arkansas			Florida		
Deer	{Nov. 8-13 ♂	1	Deer, male	Nov. 20-Jan. 6† ♂	2
Rabbit	{Dec. 13-18 ♂	8	Squirrel	Nov. 20-Feb. 1†	10
Squirrel	Sept. 15-Jan. 31	8	Quail	Nov. 20-Feb. 1†	10
Quail	Oct. 1-Dec. 31	8	Turkey	Nov. 20-Feb. 1†	2
Turkey	Dec. 1-Jan. 31	8	Bass, black	No closed season	8
Bass, black	Apr. 1-10	1	Bream, perch	No closed season	25
Trout	May 16-Mar. 16	8	Tarpon	No closed season	
Pike, Jack salmon	May 16-Oct. 31	6			
Bream, perch	No closed season	6			
Lake Bass	No closed season	20			
	No closed season	20			
California			Georgia		
Deer	{C.-Aug. 9-Sept. 14	2	Alligators	No open season†	
	{S.-Sept. 20-Oct. 19	1	Deer	Nov. 5-20 ♂	1
Bear	{C.-Aug. 9-Dec. 31	2	Bear	Nov. 20-Feb. 15†	
	{S.-Sept. 20-Dec. 31	4	Squirrel	Sept. 1-Dec. 5	10
Rabbit, Ctn. T.	Nov. 22-Dec. 4	8	Quail	Nov. 25-Feb. 25	15
Rabbit, Jack	Jan. 1-Aug. 31	2	Grouse	Nov. 20-Jan. 5	3
Quail	Nov. 22-Dec. 31†	2	Turkey	Nov. 20-Feb. 25†	2
Pheasant	Nov. 22-Dec. 1 ♂	15	Rabbit	No closed season	
Trout (exc. gldn)			Raccoon }		
(Sp. wnter seas.)	May 3-Oct. 31†	15	Opossum }	Oct. 1-Feb. 15	
Salmon	May 3-Oct. 31†	15	Bass, striped	No closed season†	10
Bass, black	May 3-Feb. 28	5	Bass, black	No closed season†	10
Sunfish, Perch	May 3-Feb. 28	25	Bass, rock	No closed season†	10
Striped Bass	No closed season	2	Bass, Ky. or r.-eye	No closed season†	10
			Bream, perch	No closed season†	25
			Crappie	No closed season†	15

Georgia (cont.)				Kansas. (cont.)		
Pickereel	No closed season†	15		Rabbit	Dec. 15-Oct. 15	
Wall-eyed pike	No closed season†	3		Bass	May 26-Apr. 24	10
Muskellunge	No closed season†	2				
Trout	Apr. 1-Nov. 15†	10		Kentucky		
Sbad	No closed season†	8		Rabbit	Nov. 20-Jan. 10	8
Idaho				Squirrel	Aug. 20-Nov. 5	6
Moose	By permit	1		Quail	Nov. 20-Jan. 10	
Deer, elk	Local seasons	1		Ruffed Grouse	Nov. 20-Dec. 15	10
Mt. goats, sheep	By permit			Bass, black	No closed season	2
Quail	Not set			Trout	No closed season	10
Pheasant	Not set			W.-eyed pike, sand pike or sauger	No closed season	10
Rabbit (Ctut)	Oct. 1-Jan. 31	4				
Hun. partridge	Not set			Striped bass	No closed season	15
Sage hen	Not set			Crappie	No closed season	15
Grouse, other	Not set	2		Rock bass	No closed season	15
Pheasant	Not set	2		Muskellunge	No closed season	15
Rabbit	Oct. 1-Jan. 31	4				
Trout	June 4-Oct. 31	7#		Louisiana		
Black Bass	No closed season	10+		Deer	Nov. 15-Jan. 10†	1
Sturgeon	No closed season	1		Bear	Closed	1
Bass (1-mouth)	No closed season	10		Rabbit	Oct. 15-Feb. 15	5
Crappie, Perch, Sunfish	No closed season	25		Squirrel	Oct. 5-Dec. 21	8
		1		Quail	Dec. 1-Feb. 10	10
				Turkey	Closed	1
				Bass, black, yel., white	No closed season	15
				Crappie	No closed season	25
				Sunfish	No closed season	50
Bass (s-mouth)	Not set					
Salmon (steelhd.)	June 4-Oct. 31	2		Maine		
Illinois				Deer	Oct. 21-Nov. 30†	1
Rabbit	Nov. 11-Jan. 15	5		Bear	No closed season	
Squirrel	Special zones	5		Rabbit	Oct. 1-Feb. 28†	4
Quail	Nov. 11-Dec. 11	10		Squirrel	Oct. 1-Oct. 31	4
Pheasant	Nov. 11-Nov. 25†	2		Pheasant	Oct. 1-Nov. 15	2
Bass, black	No closed season	10		Grouse	Oct. 1-Nov. 15	4
Bass (rk., wrmth. wh., yel.)	No closed season	50		Salmon, togue(a)	Ice out-Sept. 30	25
crappies, sunf., blue-gills	No closed season	(75 in ag-g.)		Salmon, togue(b)	Ice out-Sept. 15	25
Buffalo, bullhd., catf., carp, shphd.	No closed season			Salmon, togue(c)	Ice out-Aug. 15	25
Trout	Apr. 1-Sept. 30	8		Trout(a)	Ice out-Sept. 30	25
Perch	No closed season			Trout(b)	Ice out-Sept. 15	25
Pickereel	May 1-Nov. 30	8		Trout(c)	Ice out-Aug. 15	25
Wall-eyed pike	May 1-Feb. 15	8		Wh. perch(a)	Ice out-Sept. 30	25
Bass, S.M.	Special zones	10		Wh. perch(b)	Ice out-Sept. 15	25
				Wh. perch(c)	Ice out-Aug. 15	25
				Black bass(a)	June 21-Sept. 30	10
				Black bass(b)	June 21-Sept. 15	25
				Black bass(c)	June 21-Aug. 15	25
				Black bass (dy)	June 1-20	3
Lake tr., white-fish	No closed season			Pickereel	No closed season	10†
Indiana				a-Lakes & ponds		
Rabbit	Nov. 10-Jan. 10	5		b-Rlv. abv. tidewtr.		
Squirrel	Not set	5		c-Brooks, streams		
Quail	Nov. 10-Dec. 20	10				
Pheasant	Dates not set			Maryland		
Hun. partridge	Nov. 10-Dec. 20	5		Deer	Dec. 3-8 ♂†	1
Bluegill, rd.-eared sunf., crappie	No closed season	25 in ag-g.		Squirrel	Oct. 10-31	6
Rock bass	June 16-Apr. 30	6		Quail	Nov. 15-Dec. 31†	6
Bass, silv. or yel., bl., Ky., wh. or str.	June 16-Apr. 30	10 in ag-g.		Grouse	Nov. 15-Dec. 31†	2
				Pheasant	Nov. 15-Dec. 31† ♂	2
				Turkey	Nov. 15-Nov. 30†	1
				Trout	Apr. 15-Sept. 15	5
				Bass-non-tdl.	July 1-Nov. 30	10
				Str. (rek.) bass, non-tdl. wtrs.	June 1-Nov. 30	10
Pike-perch	June 16-Apr. 30	6		Wall-eyed pike	Apr. 1-Nov. 15	10
Pike or pickerel	June 16-Apr. 30	6		Pike, pickerel	June 1-Nov. 30	10
Yellow perch	June 16-Apr. 30			Perch	No closed season	15
Trout	May 1-Aug. 31	15		Catfish	Feb. 15-Nov. 30†	10
Chan. catfish	No closed season			Herring	Mar. 15-Jun. 20	10
				Shad	Mar. 15-Jun. 20	10
Iowa						
Rabbit	Not set	10		Massachusetts		
Squirrel	Not set	6		Deer	Dec. 3-8	1
Pheasant	Not set	2		Hare	Oct. 20-Feb. 5	2
Quail	Not set	8		Rabbit, (Ctnt)	Oct. 20-Feb. 5	5
Hungarian partridge	Date not set			Squirrel	Oct. 20-Nov. 20	6
Trout	May 1-Nov. 30	8		Quail	Oct. 20-Nov. 20†	4
Northern pike	May 15-Feb. 15	5		Grouse	Oct. 20-Nov. 20	2
Bass	May 30-Feb. 15	5		Pheasant	Oct. 20-Nov. 20 ♂	2
Pike, sand or saug., w.-eyed	May 15-Feb. 15	8		Bass	July 1-Feb. 15	5
Bullheads	No closed season	25		Pike	Apr. 15-Feb. 15	5
Yell. pch. and bass, yellow str., silver	May 15-Feb. 15	15		Muskellunge	Apr. 15-Feb. 15	5
Crp., cal. bass	No closed season	15		Pickereel	Apr. 15-Feb. 15	10
Catfish	Apr. 15-Nov. 30†	8		White perch	Apr. 15-Feb. 15	15
				Salmon	Apr. 15-July 31	5
				Trout	Apr. 5†	12
				Bluegls., cal. bass, crappie, hrnd. pout, sunfish, yel. pch.		
Kansas						
Squirrel	June 15-Nov. 30	8			Apr. 15-Feb. 15	20
Quail	Not set					
Pheasant	Not set					

Michigan				Nebraska			
Bear	Nov. 15-30†	1		Deer	Special permits	1	
Rabbit	Oct. 1-Mar. 1†	5		Quail	Nov. 1-25†	7	
Deer	Nov. 15-30†	1		Rabbit	Sept. 25-Jan. 31		
Grouse, prairie chicken	Oct. 1-Nov. 10†	5		Squirrel	May 1-Dec. 31	10	
Pheasant	Oct. 1-10	1		Pheasant	{Oct. 1-Dec. 31	5	
Squirrel	Oct. 1-20†	2		Grouse	{Oct. 26-Nov. 25 ♂†	5	
Trout	Apr. 5-Sept. 3	5		Trout	Nov. 10-12†	2	
Lake Trout	No closed season	2		Bass, black	No closed season		
Black Bass	No closed season	5†		Crappie, sunf., rock bass	No closed season†	10	
No. pike, pk. pch.	Apr. 25-Mar. 15	5		Bullheads	No closed season†	15	
Muskellunge	Apr. 25-Sept. 13	25		Catfish	No closed season†	10	
Crappie, whtf.	No closed season	10		Perch	No closed season†	25	
White bass	No closed season			Pike, w.-eye, saug, no'thn.	No closed season†	5	
Crappie, rk. bass, yel. pch. bluegills, sunfish	{No closed season	25†		Muskkrat, Mink	1. Dec. 15-Mar. 15		
Whitefish	No closed season	7			2. Nov. 15-Jan. 15		
Sturgeon	Apr. 25-Sept. 13	2		Nevada			
Minnesota				Antelope	Not set	1	
Deer (Bow and Arrow)	Not set	1		Deer	Not set	1	
Deer	Not set	1		Rabbit	Not set		
Bear	Not set	7		Quail	Dates not set		
Squirrel	Not set	10		Pheasant	Dates not set		
Quail	Not set	3		All game fish	Local seasons	15	
Pheasant	Not set	15		New Hampshire			
Rabbit	Not set			Deer	{North—Nov. 1-30	1	
Raccoon	Not set			Bear	{South—Dec. 1-21	3	
W.-eyed pike, saugers, gt. no. pike, pickerel	{May 12-Feb. 15†	8		Rabbit, hare	No closed season	5	
Muskellunge	May 16-Feb. 15†	2		Squirrel	Oct. 1-Mar. 1		
Bass	June 20-Nov. 30†	6		Quail	Oct. 1-Nov. 1		
Trout	May 1-Sept. 5†	15		Grouse	No open season	25	
Lake Trout	{May 2-Sept. 25	5		Pheasant	Oct. 1-Dec. 1	10	
Crappies, sunfish wh. & rk. bass	Jan. 2-Feb. 15			Trout, brook	Oct. 15-Nov. 16 ♂†	2	
Catfish	May 16-Feb. 15†	15		Lake Trout	May 1-Aug. 31	10	
Bullheads	May 16-Feb. 15†	10		Lake Trout (fly)	Jan. 1-Sept. 30†	2	
Whitefish	May 16-Feb. 15†	50		Salmon	September	2	
Buffalo	May 16-Feb. 15†			Trout, golden	Apr. 1-Aug. 31	4	
				Bass	Apr. 1-Aug. 31	5†	
				Pike-perch	July 1-Oct. 31†		
				Pickerel	May 28-Oct. 31†	10	
				Mink, otter muskrat	May 28-Jan. 31		
					Nov. 1-Feb. 1		
Mississippi				New Jersey			
Deer	Nov. 20-30†	1		Deer		1	
Bear	No open season			Archery			
Rabbit	Any open season	5		Rabbit, squirrel	{Not available	6	
Squirrel	Oct. 7-Dec. 31	5		Quail		10	
Quail	Dec. 10-Feb. 10†	8		Grouse		3	
Turkey	Apr. 1-10	1		Pheasant		50	
Bass	No closed season	15		Trout	Apr. 11-Sept. 30	8	
Crappie	No closed season	15		Salmon	Apr. 11-Sept. 30	2	
White perch	{No closed season	20		Pike, pick'l, pike-perch	May 20-Nov. 30		
Sunfish		25		Bass, bl. Os-wego	Jan. 1-31	10	
				Calico, rock bass	June 15-Nov. 30	5	
				crappie,	No closed season		
Missouri				Bass, striped	Apr. 1-Nov. 30	10	
Deer	Not set (res. only)	1		Wh., yel. pch., catf., sunf.	No closed season	10	
Rabbit	{May 30-Oct. 31						
	{Nov. 10-Feb. 28						
Squirrel	Nov. 10-30	6		New Mexico			
Quail	Nov. 10-Dec. 31	10		Deer	Nov. 7-18		
Stizostedion	May 30-Nov. 30	4		Elk	Nov. 21-29 ♂		
Micropterus	May 30-Nov. 30	6		Bear	{Oct. 1-Nov. 3		
Salmo and salvelinus	Mar. 1-Nov. 30	6		Antelope	{Nov. 19-30		
Roccus & morone	Mar. 15-Nov. 30	9			Shooting by permit† ♂		
Ambloplites	Mar. 15-Nov. 30	9		Turkey	Nov. 7-Nov. 18†		
Chaneobryttus	Mar. 15-Nov. 30	12		Squirrel	Nov. 7-Nov. 18		
Pomoxis	Mar. 15-Nov. 30	6		Trout	{N. May 25-Oct. 31		
Ictalurus	Mar. 15-Nov. 30	12			{S. May 1-Oct. 31		
Lepomis pallidus†	Mar. 15-Nov. 30			Bass, pike pch. Chan. catf. Crappie	{Apr. 1-Mar. 31		
				Sunf., ring pch. and bream			
Montana				Bullhd., yel. and mud catfish	{No closed season		
Antelope	Sept. 5-Nov. 16†	1					
Deer	By permit	1		New York			
Bear	Oct. 15-Nov. 15† ♂	1†		Deer	Oct. 25-Nov. 30† ♂	1	
Elk	Apr. 15-Nov. 15†			Bear	Oct. 25-Nov. 30†	1	
	Sept. 15-Feb. 28†			Rabbit	By dept. order	6†	
	Sept. 15-Dec. 15†			Squirrel	Oct. 17-Nov. 21	5	
Moose	By permit	1		Quail	Nov. 1-15	4†	
Goat	Local seasons	1†		Grouse	Not set	2	
Grouse				Pheasant ♂	Not set	1	
Quail, turkey	{Dates not set			Raccoon	{N. Oct. 25-Jan. 1		
Sage hen					{S. Oct. 29-Nov. 4		
Hun. partridge							
Pheasant							
All game fish	May 16-Nov. 15	15					

N. Y. (cont.)					
Black bass	July 1-Nov. 30†	6			
Striped bass	No closed season	†			
Muskellunge	July 1-Dec. 1†	†			
Salmon, Idlekd.	Apr. 1-Sept. 10	2			
Salmon, chinook	Apr. 1-Sept. 10	3			
Pike-perch	May 1-Mar. 1†	10†			
Pickeral	May 1-Mar. 1†	10†			
Gt. n'n. pike	May 1-Mar. 1†	10†			
Trout, brk., br., r'bow	Apr. 10-Sept. 30	10†			
Lake trout	Apr. 1-Sept. 10	3†			
Bullheads	No closed season†	†			
Whitefish	Apr. 1-Sept. 10†	†			
Perch, white	No closed season	25†			
Perch, yellow	No closed season†				
Long Island					
Squirrel	Nov. 1-Dec. 31	5			
Grouse	Not set	2			
Pheasant	Nov. 1-Dec. 31	4			
Quall	Nov. 1-Dec. 31	4			
North Carolina					
Deer	Oct. 15-Jan. 1†	1			
Bear	Oct. 15-Jan. 1	2			
Rabbit	Nov. 26-Jan. 30	5			
Pheasant	Nov. 2-Jan. 30	8			
Squirrel	Oct. 15-Jan. 1	8			
Quall	Nov. 26-Jan. 30	8			
Grouse		2			
Turkey		1			
Wild boar		1			
Raccoon	Oct. 15-Jan. 1	10			
Trout	Oct. 15-Feb. 15	8			
Bass, black	Apr. 15-Aug. 31	5			
Pike, walleyed	No closed season	8			
Bass, striped	No closed season	8			
North Dakota					
Deer	Not set	1			
Sharptail	Not set	3			
Pin'd grouse					
Sage & ruffed grouse; part'ge	Dates not set				
Pheasant	Not set	4			
Bass	June 16-Oct. 31	5			
Wall-eyed pike, northern pike	May 16-Oct. 31	5			
Sunfish	May 16-Feb. 28	15			
Trout, Salmon	May 2-Sept. 30	5			
Perch, Crappie	May 16-Feb. 28				
Ohio					
Deer	Not set	1			
Rabbit	Not set	4			
Squirrel	Not set	4			
Pheasant	Not set				
Hun. partridge	Not set				
Grouse	Not set	2			
INLAND DIST.					
Muskellunge	No closed season†	2			
Wall-eyed pike	No closed season†	6			
Sauger	No closed season†	6			
Trout	No closed season†				
Bass	No closed season†				
LAKE ERIE DIST.					
Muskellunge	No closed season†				
Wall-eyed pike	No closed season†				
Sauger	No closed season†				
Trout	No closed season†				
Bass	No closed season†				
Oklahoma					
Deer	Not set	1			
Squirrel	May 15-Jan. 1	10			
Quall	Inter. (Nov.-Jan.)	10			
Pheasant	Not set				
Bass	No closed season†	10			
Chan. catfish	No closed season†	15			
Crappie	No closed season†	15			
Trout	No closed season				
Oregon					
Deer	Not set	1			
Elk	Not set	1			
Antelope	Not set	1			
Squirrel	Not set	5			
Quall	Not set	2			
Blue Sage Hen	Not set	5			
Grouse, other	Not set	2			
Pheasant	Not set				
Hun. partridge	Not set				
Trout, salmon, steelhead.	Apr. 18-Oct. 11	10			
Oregon (cont.)					
less than 20"					
Bass, black;					
Perch, crappie, catf., sunf., bream, pike	No closed season				30
Str. bass.	No closed season				15
Shad	No closed season				1
Pennsylvania					
Deer, female	No open season				
Deer, 2 pt. ant.	Nov. 30-Dec. 12				1
Deer, no ant.	Not set				
Bear	Nov. 16-21				1
Rabbit, Cttl.	Oct. 31-Nov. 28				4
Raccoon	No closed season				
Squirrel	Oct. 31-Nov. 28				5
Quail, Bbwht.	Closed				4
Grouse, Rfd.	Closed				3
Pheas'nt, renk.m.	Oct. 31-Nov. 28				2
Turkey	Oct. 31-Nov. 28†				1
Partridge, Hun.	Closed				
Hare, snshoe	No closed season				6
Trout	Apr. 15-Jul. 31				10
Trout, lk. or sal.	Apr. 15-Nov. 30				8
Bass	Jul. 30-Nov. 1				6
Pike-perch					6
Pickeral					6
Yell. pch., rock bass, str. or cal. bass, wh.; crappie, sunf., catf., suckers, carp	No closed season				
	No closed season				15
Rhode Island					
Rabbit	Nov. 1-Dec. 31†				5
Hare	Nov. 1-Dec. 31				2
Squirrel	Nov. 1-Dec. 31				5
Quail	Nov. 1-Dec. 31				6
Grouse	Nov. 1-Dec. 31†				2
Pheasant	Nov. 1-Dec. 31 ♂				3
Bass	June 20-Feb. 20†				6
Pickeral	June 20-Feb. 20†				10
Trout	Apr. 10-July 15†				10
Striped bass	No closed season				
Perch, white	Apr. 15-Feb. 20				20
Perch, yellow	Apr. 15-Feb. 20				30
All fresh water	er fishing closed				
Feb. 21-	Apr. 14, incl.				
South Carolina					
Deer	Nov. 15-22† ♂				1
Rabbit	Nov. 24-Feb. 15				
Squirrel	Oct. 15-Jan. 31				
Quail	Nov. 24-Feb. 15				
Turkey	Nov. 23-Mar. 1				5
Trout, speckled	Jan. 1-Oct. 1				20
Trout, rainbow	Jan. 1-Oct. 1				20
Bass	No closed season†				8†
South Dakota					
Deer	Not set				1
Grouse, prairie chicken	Not set				3
Pheasant	Not set				4
Hun. partridge					
Trout	May 1-Feb. 28†				10
Bass, w.-eyed pike, pickeral	May 1-Feb. 28†				6
Bluegills	May 1-Apr. 30				15
Bullheads, pch.	May 1-Feb. 28				50
Crappies, sunf.	May 1-Feb. 28†				15
Tennessee					
Deer	Nov. 16-21 ♂†				1†
Bear	Oct. 12-Dec. 2†				1
Rabbit	Nov. 26-Jan. 15				5
Squirrel	Sept. 1-Dec. 1				6
Quail	Nov. 26-Jan. 15				6
Grouse	Nov. 26-Jan. 25				3
Wild boar	Oct. 12-Dec. 2				1†
Turkey	Apr. 12-27†				1
Trout	Mar. 1-Oct. 1				7
Bass	No closed season				10
Raccoon	Nov. 15-Jan. 25				
Opossum	Nov. 15-Jan. 25				
Red fox	Nov. 15-Jan. 25				
Rock bass	May 30-Mar. 31				10
White, str. bass	No closed season				30
Yellow bass or jacks	No closed season				30
Warmouth bass	No closed season				30

Tenn. (Cont.)			Washington		
Bluegill bream	No closed season	30	Deer	Oct. 11†	1
Catfish	No closed season		Bear	Oct. 11†	1
Buffalo	No closed season		Elk	Nov. 1-11 ♂	1
			Mt. Goat	Sept 13-30†	1
Texas			Rabbit	(W. Oct. 11-Mar. 31	5
Antelope	Closed		Grouse	(E. Oct. 11-Feb. 28	
Deer	Nov. 16-Dec. 31† ♂	2		Sept. 19, 20, 26, 27	
Bear	Nov. 16-Dec. 31	1		Oct. 11-25	3
Peccary	Nov. 16-Dec. 31†	2	Quail	Oct. 11-Nov. 15	3
Squirrel	May 1-Dec. 31†	10	Pheasant	Oct. 11-Nov. 15	3
Chachalaca	Dec. 1-Jan. 16	5	Hungarian	Oct. 11-Nov. 15	5
Quail	Dec. 1-Jan. 16†	12	partridge		
Turkey	Nov. 16-Dec. 31† ♂	3	Whitefish	Dec. 6-Feb. 28†	15
Bass, bl., sp'ted	No closed season	15	Trout	County seasons	15
White bass	No closed season	25			
Trout	No closed season	5	West Virginia		
Crapple	No closed season	25	Deer	Nov. 30-Dec. 2	1
Catfish	No closed season	25	Rabbit	Nov. 11-Jan. 2	4
			Pheasant	Nov. 11-14 ♂	2
			Raccoon	Nov. 2-Jan. 9	2
			Bear	Nov. 2-26, Dec. 7-26	1
			Squirrel	Oct. 1-14, Nov. 11-28	4
			Quail	Nov. 11-Jan. 2	7
			Grouse	Oct. 1-14-Nov. 11-28†	4
			Turkey	Oct. 1-14, Nov. 11-28	1
			Trout, rnbw.,		
			brown bk.	Apr. 25-Sept. 7	10
			Bass	June 1- Mar. 13	8
			Pickrel	No closed season	
			Muskellunge,		
			w. eyed pike	No closed season	
			Rk. bass, crapple,		
			sunlt., bluegill	No closed season	
			Catfish	No closed season	
			Perch	No closed season	
Utah			Wisconsin		
Antelope	Not set	1	Deer	Nov. 22-28	1
Deer	Not set	1	Raccoon	Oct. 4-Dec. 20	
Bobcat, coyote,	No closed season		Rabbit	Oct. 4-Jan. 15	6
fox, lions			Squirrel	Oct. 8-Dec. 20	5
Elk (By permit)			Grouse	Oct. 4-Nov. 16	5
Bison	By permit		Pheasant	Oct. 18-Nov. 11	4
Grouse, sage hen,	By permit		Hun. partridge	Closed	
prairie chicken			Quail	Oct. 18-Nov. 11	5
Pheasant	Not set	3†	Bass, black	June 20-Jan. 15	5
Quail		10	Trout	May 2-Sept. 7	10
Bass	June 6-Oct. 11†	12	Lake trout	Apr. 1-Sept. 30†	5
Trout	June 6-Oct. 11†	12	Wall eyed pike,		
Salmon	June 6-Oct. 11†	12	sauger	Apr. 1-Jan. 31	5†
			No. pike, pick'l	Apr. 1-Jan. 31	5†
			Muskellunge	May 25-Nov. 1	1
			Bass, other	No closed season	25
			Catfish	No closed season	5
			Sturgeon	No closed season	25
			Other panfish	No closed season	25†
Vermont			Wyoming		
Deer	Nov. 14-27 ♂†	1	Deer	Local season† ♂	1
Squirrel	Oct. 1-Oct. 31	4	Moose	Local seasons ♂	1
Rabbit	Oct. 1-Feb. 28	3	Elk	Local season† ♂	1
Quail	No open season		Bear	Local seasons	1
Grouse	Oct. 1-Oct. 31	4	Sheep	Local seasons† ♂	1
Pheasant	No open season		Antelope	Local seasons†	2
Bear	June 1-Dec. 31		Pheasant	Not set	
Trout	May 1-Aug. 14	12	Brook trout	May 1-Oct. 31	20
Lake trout,			Other trout	May 1-Oct. 31†	12
salmon	May 1-Aug. 31	2	Grayling	May 1-Oct. 31†	20
Bass	July 1-Nov. 30	5	Bass	May 1-Oct. 31†	20
Muskellunge	June 15-Apr. 14	25†	Whitefish	May 1-Oct. 31†	20
Pike-perch	May 1-Mar. 14	25†			
Pickrel	May 1-Mar. 14	25†			
Smelt	June 1-Mar. 31				
Virginia					
Deer	Nov. 20-Jan. 5† ♂	1			
Bear	Nov. 16-Jan. 1†	1			
Fox	No closed season				
Rabbit	Nov. 15-Jan. 31†	75			
Squirrel	E. Nov. 20-Jan. 20	125			
Quail	(E. Nov. 20-Jan. 20	15			
	(W. Nov. 20-Jan. 5	20			
Grouse	Nov. 20-Jan. 5	4			
Pheasant	Nov. 20-Jan. 5	8			
Turkey	Nov. 20-Jan. 5				
	(W. June 20-Dec. 31.				
Bass	(E. June 1-Mar. 15	8			
Trout	May 1-Sept. 15	8			
Pike	(W. Same as bass	20			
Crapple	(E. June 1-Mar. 15				
Bream	No closed season				
	No closed season	25			

MIGRATORY BIRD LAWS

DO NOT HUNT ducks, geese, brant, coot, rails, gallinules, woodcock, or mourning dove until you have studied the laws on these birds issued in September, 1933, by the Fish and Wildlife Service, U. S. Dept. of Interior, Chicago 50, Illinois. The 1950 laws forbade the taking of any jacksnipe, Ross geese, or swan, and in some places, wood ducks, brant, snow geese, mourning dove, woodcock, and Canada geese. There is no point in trying to list here the very complicated seasons on ducks, geese, etc. They are changed radically every year and as a rule shortened.

New Game Laws

The following new game laws should be put in force at once:

Book agents may be killed from Oct. 1st to Sept. 1st; spring poets from March 1st to June 1st; scandal mongers from April 1st to Feb. 1st; umbrella borrowers from Aug. 1st to Nov. 1st, and from Feb. 1st to April 1st; while every man who accepts this almanac(k), but when the bill is presented, says, "I never ordered it", may be killed on sight without reserve or relief from valuation or imprisonment, and buried, face downwards, without the benefit of the clergy.

NOSE TROUBLE? SINUS?

Here is Quick
Blessed Relief

MIRACLE CHLOROPHYLL added to KILL NASAL ODOR

If your nose feels stuffy, drains excessive mucus constantly, brings on headaches, pains around the eyes, hawking with annoying mucus dripping down your throat, here is quick, blessed relief in a matter of minutes with amazing new WEL-NOZE NASAL RINSE.

Disorders of the nose, may cause bad breath, more often than suspected. Miraculous chlorophyll, now contained in WEL-NOZE, kills unpleasant odor coming from the nose. The very first time you use WEL-NOZE your nasal passages open up, mucus goes in a hurry, and cooling, soothing, miracle-like relief is yours, and your breath is pure. You feel like living again! Send only \$1.50 for generous supply. (2 for \$2.50, 3 for \$3.25). No C.O.D. please. Satisfaction guaranteed or your money refunded upon return of unused portion. Act now! Send for WEL-NOZE with Chlorophyll added today!

DORENE CO.

DEPT. F-54

BOX 795

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Complete New FALSE PLATE



FROM YOUR OLD - IN 24 HOURS

NO IMPRESSION NEEDED

Let us help you enjoy life again. You will marvel at this revolutionary new method. Using your own old plates, we will remake them completely in only 24 hours. Missing teeth are carefully matched and replaced. Work is done on an absolute

Tru-Grip Dental Labs. 7th Fl., 127 N. Dearborn St.,

Brand new process transforms your old, broken, cracked or loose plates into new lightweight plastic plates.

NOW
LOW
AS.. 15.⁹⁵

MONEY BACK GUARANTEE

—Just rush your name and address to us for full FREE DETAILS. If your teeth are loose, we'll tell you how to tighten them before duplication. Act now. Quit suffering!

Dept. FA-4, Chicago 2, Illinois

\$-"MONEY MAGNET" CANDLE?-\$

Many romantic legends of great Riches, Power, Love and Glory, it is said, have been related about this type of "Wishing" Candle! Called by an old Gypsy "Witch" a "Lucky Money Magnet Candle", it was superstitiously thought to "draw" Wealth, Love, Treasures, give one a believed "Lucky Money Power Hand" for Games, Jobs, a raise in Pay, more Profit in Business, etc. We make no supernatural claims, sold only as an unusual Curio. Made of Green hued Wax fixed with legend reputed "Money Attracting" Bayberry. Live Highly Magnetic Drawing Lodestones and 7 believed "very Lucky" Roots, Herbs and Incense Powders. \$1.99 Postpaid for 3 Candles, with all information. Satisfaction GUARANTEED or Money Returned. If C.O.D. pay Postman \$1.99 and Postage. Order NOW!

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Box 72, BROOKLYN, N. Y.

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TRY IT!

POWER!
20-MILE RANGE!

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ONLY \$3.98 (tax-incl.)
COMPLETE WITH STRAPS
and CARRYING CASE

ONLY
\$3.98

(tax-incl.)

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RUPTURE-EASER

T.M. Reg. U.S. Pat. Off. (A PIPER BRACE PRODUCT)

• NO FITTING REQUIRED •

• For Men, Women and Children



You can sleep
in it . . . you
can work in it
. . . you can
bathe in it.

Right or Left
Side
Double

\$3.95
\$4.95

SOFT, FLAT,
GROIN PADS

NO STEEL OR
LEATHER BANDS

WASHABLE
SANITARY

A strong form-fitting washable support designed to give you relief and comfort. Snaps up in front. Adjustable back lacing and leg strap. Soft flat groin pad—no steel or leather bands. Invisible under light clothing.

OVER 700,000

GRATEFUL USERS!

Read What Others Say:

Harley Decoteau, Montpelier, Vt. writes: "The last brace you sent me was wonderful. I have been ruptured for 30 years. I am now 36, and in 30 years, I have never been more pleased."

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Mr. George Dorchester, Union City, N.J. says: "I am using one of your RUPTURE-EASERS now and find it the best I have ever used. I am a truck driver and have tried others that cost 4 and 5 times as much as your hernia support but I get more comfort from your supporter."

Brings wonderful new freedom from fear and worry. RUPTURE-EASER has helped thousands of users. The same relief is yours for the ordering. Just measure around lowest part of abdomen for size. (Note: Be sure to give both side and size when ordering.)

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Piper Brace Company, Dept. ON-54

811 Wyandotte, Kansas City 5, Mo.

Please send ... RUPTURE-EASERS by return mail.

Right Side ☐ \$3.95 Measure around low-

Left Side ☐ \$3.95 est part of my abdo-

Double ☐ \$4.95 men is.....INCHES

Enclosed is: ☐ Money Order ☐ Check for \$.....

☐ Send C. O. D. We Prepay Postage Except on COD's

Name.....

Address.....

City and State.....

PIPER BRACE CO., Dept. ON-54
811 Wyandotte, Kansas City 5, Mo.

GESTATION AND REPRODUCTION TABLE

	Proper age for first mating	Period of power of reproduction in years	No. of females for one male	Period of gestation and incubation		
				Shortest days	Mean days	Longest days
Mare.....	3 yrs.	10 to 12		325	336	352
Stallion.....	4 "	12 to 15	20 to 30			
Cow.....	18-24 mos.	10 to 14		235	282	300
Bull.....	12-18 "	10 to 12	30 to 40			
Ewe.....	18 "	6		145	147	152
Ram.....	12-14 "	7	35 to 45			
Sow.....	9 "	6		110	114	120
Boar.....	9 "	6	8 to 12			
She Goat.....	18 "	6		147	151	155
He Goat.....	18 "	5	20 to 30			
Ass.....	3 yrs.	10 to 12		356	367	378
Jack.....	4 "	12 to 15	20 to 30			
She Buffalo.....	18-24 mos.	8		309	315	325
Bitch.....	16-18 "	8		58	63	67
Dog.....	12-16 "	8				
She Cat.....	12 mos.	6		58	60	64
He Cat.....	12 "	10	6 to 8			
Doe Rabbit.....	6 "	5 to 6		25	30	35
Buck Rabbit.....	6 "	5 to 6	30			
Cock.....	6 "	5 to 6	12 to 18			
Hen.....		5 to 6		19	21	24
Turkey.....				24	26	30
Duck.....				28	30	32
Goose.....				27	30	33
Pigeon.....				16	18	20
Pea Hen.....				25	28	30
Guinea Hen.....				20	23	25
Swan.....				40	42	45
Hen or Duck's Eggs.....				22	30	34

REPRODUCTIVE CYCLE IN FARM ANIMALS

Courtesy F. N. Andrews — Purdue University

	Reoccurs if not Bred (Days)	Estrual Cycle incl. Heat Period (Days)		In Heat for		Usual Time of Ovulation
		Ave.	Range	Ave.	Range	
Mare	16	21	10-37	5-6 days	1-37 days	24-48 hours before end of estrus
Sow	19	21	18-24	2-3 days	1-5 days	Usually second day of estrus
Ewe	15	16	14-20	30 hours	20-42 hours	1 hour before end of estrus
Goat	19	20	12-25	36-48 hours	20-80 hours	Near end of estrus
Cow	20	19-20	16-24	16-20 hours	8-30 hours	14 hours after end of estrus
Bitch	180	24		21-28 days		
Cat	120			3-12 days		

Tables of Measures

Apothecaries

- 1 scruple=20 grains
1 dram=3 scruples
1 ounce=8 drams
1 pound=12 ounces

Avoirdupois

- 1 pound=16 ounces
1 hundredweight=100 pounds
1 ton=20 hundredweight=
2000 pounds
1 long ton=2240 pounds

Cubic Measure

- 1 cubic foot=1728 cubic inches
1 cubic yard=27 cu. feet
1 register ton (shipping measure)
=100 cubic feet
1 U. S. shipping ton=40 cu. ft.
1 cord=128 cubic feet
1 U. S. liquid gallon=4 quarts
=231 cubic inches
1 imperial gal.=1.20 U. S. gals.
=0.16 cubic feet
1 board foot=144 cubic inches

Dry Measure

- 2 pints=1 quart (qt.)
4 quarts=1 gallon (gal.)
2 gallons or } =1 peck
8 quarts }
4 pecks=1 struck bushel

Household Measures

- 120 drops water=1 teaspoon
60 drops thick fluid=1 teaspoon
2 teaspoons=1 dessertspoon
3 teaspoons=1 tablespoon
16 tablespoons=1 cup
1 cup= $\frac{1}{2}$ pt.
1 cup water= $\frac{1}{2}$ lb.
4 tablespoons flour=1 oz.
2 tablespoons butter=1 oz.
3 teaspoons soda= $\frac{1}{2}$ oz.
4 teaspoons baking powder=
 $\frac{1}{2}$ oz.
2 cups granulated sugar=1 lb.
 $2\frac{1}{2}$ cups confectioners' sugar=
1 lb.
 $2\frac{1}{2}$ cups wheat flour=1 lb.
 $3\frac{1}{2}$ cups whole wheat flour=
1 lb.
 $2\frac{1}{2}$ cups buckwheat flour=1 lb.
 $5\frac{1}{3}$ cups coffee=1 lb.
 $6\frac{1}{2}$ cups tea=1 lb.
2 cups lard=1 lb.
2 cups butter=1 lb.
2 cups corn meal=1 lb.
2 cups powdered sugar=1 lb.
2 cups brown sugar=1 lb.
2 cups raisins=1 lb.
2 cups currants=1 lb.
9 eggs=1 lb.

Linear Measure

- 1 foot=12 inches
1 yard=3 feet
1 rod= $5\frac{1}{2}$ yards=16 $\frac{1}{2}$ feet
1 mile=320 rods=1760 yards=
5280 feet
1 nautical mile=6080 feet
1 knot=1 nautical mile per hour
1 furlong= $\frac{1}{8}$ mile=660 feet=
220 yards
1 league=3 miles=24 furlongs
1 fathom=2 yards=6 feet
1 chain=100 links=22 yards
1 link=7.92 inches
1 hand=4 inches
1 span=9 inches

Liquid Measure

- 4 gills=1 pint (O.)
2 pints=1 quart (qt.)
4 quarts=1 gallon (gal.)
63 gallons=1 hoghead (hhd.)
2 hogshheads=1 pipe or butt
2 pipes=1 tun

Square Measure

- 1 square foot=144 square inches
1 sq. yard=9 sq. feet
1 sq. rod=30 $\frac{1}{4}$ sq. yards=
27 $\frac{1}{4}$ sq. feet
1 acre=160 sq. rods=43560 sq. ft.
1 sq. mile=640 acres=
102400 sq. rods
1 sq. rod=625 square links
1 sq. chain=16 square rods
1 acre=10 square chains

Troy

- (Used in weighing gold, silver,
jewels)
1 pennyweight=24 grains
1 ounce=20 pennyweight
1 pound=12 ounces

Metric

- 1 inch=2.54 centimeters
1 meter=39.37 inches
1 yard=0.914 meters
1 mile=1609 meters=
1.61 kilometers
1 sq. inch=6.45 sq. cm.
1 sq. yard=0.84 sq. m.
1 sq. mile=2.59 sq. km.
1 acre=0.40 hektars
1 cu. yard=0.76 cubic meters
1 cu. meter=1.31 cubic yards
1 liter=1.06 U. S. liquid quarts
1 hektoliter=100 liters=
26.42 U. S. liquid gallons
1 U. S. liquid quart=0.94 liters
1 U. S. liquid gallon=3.76 liters
1 metric ton=1000 kilograms
1 kilogram=2.20 pounds
1 pound avoirdupois=
0.45 kilograms

County Kitchens Cook Book

"Of helpful lore, a goodly store
Contrived and practised oft before."

Over 300 favorite recipes old and new from
the kitchens of Hartford County, Conn.

\$1.70 postpaid

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Toy, iron banks of animals or people
having action when coin inserted
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Describe fully and state price.

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IF NATURE SLEEPS

Take "O.S.R." if you lack Pep, Vitality,
Natural desires for fun. If you have pains,
aches, coated tongue, bad skin, it may be
due to faulty elimination. **HELP NATURE**
with O.S.R. Herb Tablet and love life again.
Pay postman \$1.50 for 148 tablets or send
only \$1.00 now and save 50c. Write today

STANDARD REMEDY COMPANY

Dept. OF1 Baltimore 2, Maryland

LADIES' 20 DRESSES FOR \$3.50

**Ladies,
SKIRTS**
69c each
3 for \$1.79

Full assortment
of colors and
styles. All
Wools, pleids
and Milliners.

**Ladies'
BLOUSES**
39c each
5 for \$1.69

Assorted colors
and styles in
Silks, Crepes,
Rayons, Acetates

**Ladies'
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99c pair
3 for \$2.69

Good quality
Leathers and
Fabrics.
WILL GIVE MANY
MONTHS OF GOOD
WEAR

**QUILT
PIECES**
3 lbs. - 99c

Large bundle
of beautiful
new cotton
prints, checks,
stripes and
solids. All
good size cuttings

**Ladies'
COATS &
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\$1.29 each
2 for \$2.39

Real Bargain
in line wool
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Need slight
repairs for best
selection order
at once

**Ladies' Winter
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\$1.89 each
2 for \$3.39

All sizes with
or without fur
collars. These
are in excellent
condition,
slight repairs
needed.

**Ladies'
SLIPS**
49c each
5 for \$2.29

Beautiful,
well tailored
slips that really
give you value
for your
money.

BIG DRESS SALE

ASSORTED in Silk, Wool, Cotton & Rayon.

ALL SIZES in Good Condition
BUT NO LESS THAN 20 DRESSES
AT THIS BARGAIN PRICE

FREE!

With \$3.00 Order or More
1 Pair of Ladies' Hose
MONEY BACK IF NOT
SATISFIED. \$1.00 Deposit
MUST come with order. You
pay postman balance plus
COD and postage charges.
NO ORDER ACCEPTED
FOR LESS THAN \$3.00. A
TRIAL ORDER WILL
CONVINCE YOU OF OUR
WONDERFUL BARGAINS.

**ORDER
NOW**

RUSH YOUR ORDER TODAY!

MAIL ORDER MART Dept. OF

160 Monroe Street New York 2, N.Y.

Please send me the following items, \$1.00 deposit
enclosed.

ITEM	SIZE	PRICE

☐ Give Hose size - if Order is \$5.00 or more.

Name

Address

City

State

*No Order accepted without \$1.00 deposit
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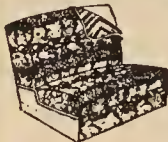
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Carry a pair of GENUINE BRAHMA RED LIVE HIGHLY MAGNETIC LODESTONES! Legend reputes, Ooouult Oriental ancients superstitiously carried two Live Lodestones as MOST POWERFUL MAGNETIC "LUCKY" CHARMS, one to "attract" Good Luck in Money, Games, Love, Business, Work, etc., the other to "prevent" Bad Luck, Harm, etc. Believe in Luck? Carry a Pair of these curious Genuine Brahma Red Live Lodestones! We make no supernatural claims. \$1.97 Postpaid for the two, with all information, 28c extra if C.O.D. Send \$1.97 and save 28c. Satisfaction GUARANTEED or Money Returned. Order yours NOW! ASTROL CO., Dept. ST-8, Main P. O. Box 72, BROOKLYN, N. Y.

NOTICE! Beware of imitations! We absolutely GUARANTEE these Genuine Brahma Lodestones are ALIVE! We believe they are just what you want, the REAL THING—POWERFUL DRAWING, EXTRA HIGHLY MAGNETIC! Fully Guaranteed! Copyright '37-A. Co.



REVERSIBLE AUTO SEAT COVERS

Made of FLEXTON plastic.
Choice of: SNAKE-ZEBRA DESIGN
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ORDER FROM MFR. AND SAVE

Colorful SNAKE AND ZEBRA DESIGN And LEOPARD - COWHIDE DESIGN. Can Be Used On Either Side. Water And Stainproof. Tailored With Side Grip Panels For Tight Fit. Sewn With NYLON Thread For Long Wear. Simple To Install. Dress Up Your Car With These Colorful Expensive Looking Covers!

Thread For Long Wear. Simple To Install. Dress Up Your Car With These Colorful Expensive Looking Covers!

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Choice Of SPLIT Or SOLID Front Seat Only \$2.98. Complete Set for Both Front & REAR ONLY \$5.00. Specify Design Wanted. Make Of Car And Seat Style. Enclose Payment And Save Postage Or Sent C.O.D.

MARDO SALES CORP. Dept. DS-386
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Send now!
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GENEROUS BOUQUET

OF LOFT-DRIED, GUARANTEED AROMATIC NEW CROP CATNIP from the FAMED FINGER LAKES COUNTRY—best for quality catnip!
YOUR KITTY LOVES IT!

Send only 35¢ a bouquet—4 bouquets \$1.00
ALL PREPAID. CATNIP KING BOX 665-Y
NO STAMPS! DEALERS, INQUIRE! ITHACA, N.Y.

NEW TOWELS

LARGE SIZE 12 for \$100
ASSORTED COLORS

Slightly Irregular, that's why this price is so low but GUARANTEED to please you in EVERY way—or your money cheerfully refunded! Order NOW! Prepaid or C. O. D.

BARGAIN TOWEL CO., Dept 230 Box 881, St. Louis 1, Mo.

ALL TIME- ALL AMERICA VEGETABLE SELECTION

Sprinkled across America in every climate zone and geographical area are some sixty "All-America" gardens. Seedsmen, horticulturists, and others contribute to these gardens annually. Resident judges determine what awards, if any, are to be made to outstanding entries of the year.

"Royal Carpet" Alyssum and "Comanche" Petunia won the 1953 floral awards. "Chrysler Imperial" and "Ma Perkins" were chosen among the rose entries. No vegetable was chosen. However, the judges were asked to vote on their preferences among all the vegetable entry winners of previous years back to 1933 and as a result of this vote, a list of twelve "All Time-All America Selections" was announced on January 1, 1953. These are listed in the order of number of votes received . . . make an excellent guide for anyone planning his or her backyard or farm garden.

Lima Bean, Fordhook 242.
Squash, Early Pro-life Straightneck.
Beet Perfected Detroit.
Carrot, Imperator.
Radish, Cherry Belle.
Snap Bean, Toperop.
Cucumber, Early Suncrop, Hybrid.
Spinach, American.
Tomato, Pritchard.
Lettuce, Greatholius.
Sweet Cormloehlef, Hybrid.
Cabbage, Chieftain, Savoy.

Seeds for these selections, and/or, the 1954 winners (announced Jan. 1, 1954), may be ordered from any reliable seedsmen.

POSTAL RATES.—DOMESTIC

July 10, 1953:

These rates take into account certain increases effective October 1, 1953, but the Bureau of Postoffice Operations advises no assurance that additional increases will not be legislated between now and Jan. 1, 1954—for the year 1954 on all classes of mail.

First Class Matter may be forwarded from one Postoffice to another without additional postage but other matter must have new postage.

LETTERS AND POSTAL CARDS.—FIRST CLASS.

Letters and Written and Sealed Matter, 3 cents for each ounce, local and non-local, except that drop letters are subject to 2 cents for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered by rural or star-route carriers.

Postcards and Private Mailing Cards (not larger than $3\frac{1}{4}$ by $5\frac{1}{2}$)..... .02

Government Postal Cards, each..... .02

Stamped 3 cent Envelopes, one, 4 cents; 25 small, 87 cents; 25 large, 92 cents.

Business Reply Cards, 3 cents. Business Reply Envelopes, 4 cents each.

NEWSPAPERS AND PERIODICALS.—SECOND CLASS.

Entire Newspapers or Magazines containing notice of second class entry when mailed by public unsealed, 2 cents for 1st two ounces, 1 cent each added ounce. Fourth Class Rate applies when it is lower than Second Class.

MERCHANDISE AND MISCELLANEOUS.—THIRD CLASS.

(Limit of weight 8 ounces.)

Merchandise, incomplete copies of newspapers, printed and other mailable matter, unsealed, 2 cents for first two ounces, 1 cent for each additional ounce.

Identical pieces of third-class matter may be mailed under permit in bulk lots of not less than either 20 pounds or 200 pieces, at the rate of 14 cents a pound, or fraction thereof. In case of circulars, miscellaneous printed matter, and merchandise, 10 cents a pound, or fraction thereof, in the case of books or catalogs having 24 pages or more, seeds, plants, etc., with a minimum charge of $1\frac{1}{2}$ cents a piece in either case. Apply to postmaster for permit. The bulk mailing fee is \$10 per calendar year.

Minimum charge for pieces of odd size or form, 3 cents.

Books, catalogues mailed in packages not exceeding 8 oz. in weight (must be of 24 or more pages and substantially bound, with at least 22 pages printed, seeds, cuttings, bulbs, roots, scions and plants, 2 ounces or fraction 2 cents, each added ounce $1\frac{1}{2}$ cents.

Circulars and other miscellaneous printed matter, also merchandise, 2 cents for the first 2 ounces and 1 cent for each additional ounce. Limit eight ounces.

Catalogs and Similar Printed Advertising Matter, in bound form having 24 or more pages, weighing over 8 ounces but not exceeding 10 pounds.

ZONES	Local	1st and 2nd	3rd	4th	5th	6th	7th	8th
1st Lb.	10c	11c	12c	13c	15c	16c	17c	18c
Each Add. Lb.	$1\frac{1}{2}$ c	$2\frac{1}{2}$ c	3c	4c	$5\frac{1}{2}$ c	7c	9c	11c

Exception: 1st or 2nd zone, where shortest regular mail route is 300 miles or more, third class rate applies.

Books: 8 cents for the first pound or fraction thereof and 4 cents for each additional pound or fraction thereof—24 or more pages permanently bound, not to exceed 70 pounds in weight. May include 1 or 2 pages only incidental advertising.

Library Books: 4 cents for the first pound or fraction thereof and 1 cent for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit for delivery in 1st three zones or within state where mailed.

PARCEL POST.—FOURTH CLASS.

(For Zone consult Post Office)

Everything over 8 ounces, including books and printed matter, except First Class and newspapers and other periodicals entered as Second Class matter mailed by the publishers:—

Weight Limits: 72 lbs. and 100 inches combined length and girth—except between 1st Class postoffices (Postmaster has list) where limits are: In zones 1 and 2, 40 lbs. with 72 inch combined length and girth, other zones 20 lbs. and 72 inch combined length and girth. Parcels over 84 but under 100 inches combined length and girth charged as 10 pounds.

Weight in Pounds	LOCAL	1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1000 miles	6 1000 to 1400 miles	7 1400 to 1800 miles	8 Over 1800 miles
1	\$0.18	\$0.23	\$0.23	\$0.24	\$0.26	\$0.28	\$0.30	\$0.32
2	.20	.27	.29	.31	.36	.40	.46	.51
3	.21	.31	.34	.38	.45	.52	.61	.69
4	.23	.35	.39	.45	.54	.64	.76	.87
5	.24	.39	.44	.52	.63	.76	.91	1.05
6	.26	.43	.49	.59	.73	.88	1.06	1.23
7	.27	.47	.54	.66	.82	1.00	1.22	1.41
8	.29	.51	.60	.73	.91	1.12	1.37	1.59
9	.30	.55	.65	.80	1.00	1.24	1.52	1.77
10	.32	.59	.70	.87	1.10	1.36	1.67	1.95
11	.33	.63	.75	.93	1.19	1.48	1.82	2.13
12	.34	.67	.80	1.00	1.28	1.60	1.98	2.31
13	.36	.71	.85	1.07	1.37	1.72	2.13	2.49
14	.37	.75	.90	1.14	1.47	1.84	2.28	2.67
15	.39	.79	.96	1.21	1.56	1.96	2.43	2.85
16	.40	.83	1.01	1.28	1.65	2.08	2.58	3.03
17	.42	.87	1.06	1.35	1.74	2.20	2.74	3.21
18	.43	.91	1.11	1.42	1.84	2.32	2.89	3.39
19	.45	.95	1.16	1.49	1.93	2.44	3.04	3.57
20	.46	.99	1.21	1.56	2.02	2.56	3.19	3.75

(Continued on Page 98)

POSTAL RATES (Continued from Page 97)

SPECIAL CLASSES. — DOMESTIC MAIL.

Special Delivery; First Class Mail: Each piece under 2 lbs.—20c; over 2 up to 10—35c; over 10 lbs.—50c.

Parcel Post: Up to 2 lbs.—35c; over 2 up to 10—45c; over 10 lbs.—60c.

Special Handling; Parcel Post only: Up to 2 lbs.—15c; over 2 lbs. up to 10—20c; over 10 lbs.—25c.

(This service expedites mail but does not include special delivery.)

Registered Mail: 30c minimum; up to \$5.00 indemnity—40c; over \$5.00 up to \$25.00—55c; over \$25.00 up to \$50.00—65c; over \$50.00 up to \$75.00—75c; over \$75.00 up to \$100.00—85c.

There are special surcharges when declared values exceed indemnities—see local Postmaster about these.

Insured Mail; Third and Fourth Class Only: Indemnity up to \$5.00—5c; over \$5.00 up to \$10.00—10c; over \$10.00 up to \$25.00—15c; over \$25.00 up to \$50.00—20c; over \$50.00 up to \$100.00—30c.

C.O.D.: Indemnities up to \$5.00, registered or not—30c; over \$5.00 up to \$10.00—Registered 80c, Non Reg. 40c; over \$10.00 up to \$25.00—Reg. \$1.10, Non Reg. 60c; over \$25.00 up to \$50.00—Reg. \$1.10, Non Reg. 70c; over \$50.00 up to \$100.00—Reg. \$1.40, Non Reg. 90c.

Money Orders: Limit for each is One Hundred Dollars. If amount of money order is from 1c to \$5.00 the fee is 10c; from \$5.01 to \$10.00 the fee is 15c; from \$10.01 to \$50.00 the fee is 25c; from \$50.01 to \$100.00 the fee is 35c.

AIR MAIL: On United States Continent

Letters: Six cents per ounce. Postals four cents each.

Air Mail Parcel Post (Correspondence may be included in package). Weight limits and sizes same as Surface Mail.

ZONES

Weight	1, 2, 3	4	5	6	7	8
8 oz. up to 1 pound	\$0.60	\$0.65	\$0.70	\$0.75	\$0.75	\$0.80
Each added pound	.48	.50	.56	.64	.72	.80

POSTAL RATES. — FOREIGN

Letters.—For the places in the following list the postal rate is 3 cents each ounce or fraction. For all other foreign destinations, 5 cents first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), Mexico, Nicaragua, Panama, Paraguay, Peru, Philippines, Salvador, El; Spain and possessions; Uruguay, Venezuela.

Post Cards.—Single post cards for places enumerated above 2 cents. Single post card for all other foreign destinations 3 cents. Maximum size 6x4¼ inches, minimum size 4x2¼ inches.

Printed Matter.—1½ cents for each two ounces or fraction thereof.

Eight-ounce Merchandise Packages.—Packages of merchandise weighing 8 ounces or less, for the countries named in the table above, except the Philippines, 2 cents for each 2 ounces. Do not seal. Mark—"May be Opened for Inspection."

Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds, 3 ounces. Dimensions: Same as for letters. (Inquire at main office or classified stations for list of countries which accept small packets and mailing instructions.)

Parcel Post:—Basic rate 45c first pound, 22c each additional pound to which add also 31c for 1 lb.; 63c for 5 lbs.; \$1.03 for 10 lbs.; \$1.83 for 20 lbs.; \$3.43 for 40 lbs.

AIR MAIL: U.S. (Outside Continent) AND FOREIGN

A. 6 cents: (Per ounce) Canada, Mexico; Armed Forces or Civilian personnel with Army or Navy Postoffice addresses Continental United States, Alaska, Canal Zone, Canton Island, Guam, Hawaii, Puerto Rico, and U. S. Virgin Islands.

Aa. Postals and Post Cards:—4 cents each.

B. 8 cents: Cuba .08—½ oz.

C. 10 cents: Central and South America. West Indies, British and French Guiana, British Honduras, Surinam and Bermuda .10—¼ oz.

D. 15 cents: Great Britain, Europe and other Islands in waters around it, U.S.S.R., Vatican City, Algeria, Egypt, Iceland, Libya, Morocco, Tunis, Turkey .15—½ oz.

E. 25 cents: All other localities .25—¼ oz.

Weight limit is 4 lbs., 6 oz. except: Canada, 60 lbs.

F. Air-letter sheets, 10 cents each to any foreign country, on sale at all postoffices.

OTHER INTERNATIONAL AIR SERVICE

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employee handle parcel post transactions. Weight limits vary from 11 to 44 lbs.

1. Commercial Papers, Printed Matter, etc., Samples (Unsealed)

From U. S. to:	First 2 oz.	Ea. Add'l 2 oz.
England	\$0.41	\$0.20
France	.42	.21
Belgium	.42	.21
Italy	.45	.24
Sweden	.45	.24
Egypt	.52	.31

2. Parcel Post

First 4 oz.	Ea. Add'l 4 oz.
\$1.00	\$0.41
1.22	.44
.98	.43
1.08	.50
.85	.49
1.35	.64

ANNUAL TREE GROWTH

If you own a young forest of mixed hard and soft wood trees averaging six feet in height, similar to that of David Cook at Stephentown, New York, you will find that year in, year out, barring years of very severe drought, those young trees would be turning in something like a 30% or twenty inch growth. Some, like hard maples, might be producing only 15% at ten foot height but others, like the 3 foot gray birch, would run as high as 60%. Valuable soft woods such as red pine and balsam fir at 7 feet would be producing about 20% growth.

Cook's actual 1940 figures: name of the tree, height at beginning of growing season, length of its growing season, and inches it grew are given in that order.

Red Pine, 7 ft., 61 days, 17.5 inches.

Pitch Pine, 4.5 ft., 59 days, 13.5 in.

Balsam Fir, 7 ft., 65 days, 18.5 in.

Hard Maple, 10 ft., 35 days, 18.75 in.

Jack Pine, 9 ft., 59 days, 32 in.

Eur. Larch, 7 ft., 101 days, 35.75 in.

Jap. Larch, 8 ft., 99 days, 38.75 in.

White Spruce, 6 ft., 66 days, 18.25 in.

Norway Spruce, 5 ft., 53 days, 20.75 in.

Douglas Fir, 7 ft., 72 days, 17.25 in.

White Cedar, 2 ft., 101 days, 11.75 in.

Red Oak, 9 ft., 37 days, 27 in.

White Ash, 5 ft., 35 days, 12.75 in.

Balsam Poplar, 3 ft., 76 days, 10.25 in.

Aspen, 5 ft., 68 days, 16 in.

Gray Birch, 3 ft., 86 days, 22½ in.

AMEN

Amen is an ancient Hebrew word meaning True, Faithful, and Certain. It is translated as "Verily" in the Gospels. See I Corinthians, XIV, 16.

WARTS GO!

TRAW, an amazing liquid, quickly—easily removes ugly embarrassing warts—leaves skin smooth and beautiful. No pain—horny growths dry up. Results guaranteed or money back. Sorry no C.O.D.'s. Mail only \$1.00 today for prompt, post paid shipment. TRAW, Dept. OF5, Martin Ave., Clifton, N. J.

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Take a BOOSTER Tablet You Get an Amazing Pick-Me-Up

And if you don't have natural desire for fun, due to normal fatigue, just take a **BOOSTER** tablet . . . the **WONDERFUL PICK-ME UP** for normal fatigue. Because **BOOSTER** may help you get back **IN THE MOOD—READY "TO GO"** by temporarily relieving your normal fatigue. Best of all . . . **BOOSTER** doesn't let you down . . . has **NO HARMFUL AFTER-EFFECTS** . . . is **Medically Pure**. Of course, you should follow the directions on the label that tell you how to use **BOOSTER** for **MOST DELIGHTFUL RESULTS**. "They really have a **KICK** to them," writes William H. Browne, Sr., San Antonio, Tex., a **BOOSTER** user. So don't risk spoiling what can easily be the best part of your life—just because you're feeling low due to normal fatigue. Take **BOOSTER** and **FEEL SWELL—"ON TOP OF THE WORLD."**

Just send your name and address with \$1 in cash, money-order, or check. Pay postman small balance of only \$2 when he delivers your **BIG 30-day-size bottle of BOOSTER** tablets, sent you in a plain package marked personal. Then use **BOOSTER** for 10-days on this **GUARANTEE**: If not completely **DELIGHTED** with results—if **BOOSTER** doesn't do what we said it will **FOR YOU**—return unused tablets. **YOUR FULL PURCHASE PRICE WILL BE SENT RIGHT BACK TO YOU BY AIR-MAIL.** (SAVE 63c by sending full price of \$3 in cash, money-order, or check when you write us. Because then **WE PAY** all postage charges.) Write **TODAY** to

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USE THIS ALMANAC ANYWHERE IN THE U.S.A.

The times given on the left hand calendar pages (12 to 34) are calculated (every astronomer must have some starting place) exactly for the latitude (42 deg. 22 min. north) and longitude of Boston and in EASTERN STANDARD TIME which is the time of the 75th meridian West of Greenwich, England.

To overcome the difficulties of presenting one almanac which shall be useful not only for the spot where the astronomer is standing but also for other places, it has been customary to present three or four extra latitude columns — which at best give but a small measure of the desired accuracy. The Old Farmer's Almanac adopted a unique, copyrighted system of its own some years ago whereby the times as given may be corrected for wherever you happen to live by the use of the Almanac Data tables on pages 104 and 105.

Opposite the times given on the left hand calendar pages (12-34) for each day in the year for the Rising and Setting of the Sun, Moon and Planets you will find a capitalised letter of the alphabet. Turning to pages 104 and 105 you will find columns for each of these letters as well as a number of cities listed. If you live in one of those cities, simply read off the minus or plus number of minutes in the column under the alphabetical letter and correct the times given on pages 12-34.

If your city is not listed, choose two cities within the same time zone as your locality which lie on either side of your town. Interpolate between the corrections figures given for each key letter for each of these cities respectively and enter the result for your town below. The net figures resulting from this modification will be those to use in correcting the Almanac figures for Boston to get the standard times for your town.

For example, to find the corrections for Peoria, Ill., one finds that Peoria lies about halfway between Indianapolis and Des Moines. Thus the correction for the key letter "A" at Peoria would lie about halfway between those given in the table for Indianapolis and Des Moines (+12 and +34 respectively) and would be about +23. Or, by way of a second illustration, Concord, N. H., lies about one-eighth of the way from Portland, Me., to Pittsburgh, Pa., and the correction for the key letter "O" would lie about one-eighth of the way from the correction for Portland (+2) to that for Pittsburgh (+29) and would be +5.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
YOUR TOWN																		
Lat.																		
Lo.																		

HOW TIMES ARE CONVERTED FOR YOUR TOWN

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 18. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 104 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON			PITTSBURGH, PA.		
Sunrise	5:10	A.M.E.S.T.	Sunrise (Boston)	5:10	A.M.E.S.T.
Key Letter		G	Correction (Column G, page 105)	+38	
Sunset	6:21	P.M.E.S.T.	Sunrise (Pittsburgh)	5:48	A.M.E.S.T.
Key letter		K	Sunset (Boston)	6:21	P.M.E.S.T.
			Correction (Column K, page 105)	+33	
			Sunset (Pittsburgh)	6:54	P.M.E.S.T.

Sun Fast. The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 15 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the locality given in Column I of the table on page 104 or 105.

Length of Day. The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See *Sunrise and Sunset* above.)

BOSTON		PITTSBURGH, PA.	
Length of day	13h 11m	Sunset (Pittsburgh)	6:54 P.M.
(From calendar page 18, April 11.)		Sunrise (Pittsburgh)	5:48 A.M.
		Length of Day	13h. 6m.

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that the constant additional correction taken from Column **D** on pages 104, 105 must be applied.

BOSTON		PITTSBURGH	
Moonset	2:00 A.M., E.S.T.	Moonrise (Boston)	2:00 A.M.
Key letter	M	Correction (Column M, page 105)	+31
April 11		Correction (Column D , page 105)	+01
Page 18		Moonrise (Pittsburgh) 2:32 A.M., E.S.T.	

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and **D** on page 104.

BOSTON		PITTSBURGH	
Moon souths	7:24 P.M., E.S.T.	Moon souths (Boston)	7:24 P.M.
April 11		Correction (Column I, page 105)	+35
Page 18		Correction (Column D , page 105)	+01
		Moon souths (Pittsburgh) 8:00 A.M., E.S.T.	

The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 5. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 100.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table below to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.

BOSTON (Latitude 42° 22' N.)		April 11	PITTSBURGH, PA. (Latitude 40° 26' N.)	
Sunrise	5:10 A.M.		Sunrise	5:48 A.M.
Subtract length of twilight (Column 4 of table)	1:39		Subtract length of twilight (Column 3 of table)	1:51
Dawn breaks	3:31 A.M.E.S.T.		Dawn breaks	3:57 A.M., E.S.T.
Sunset	6:21 P.M.		Sunset	6:54 P.M.
Add length of twilight	1:39		Add length of twilight	1:51
Dark descends	8:00 P.M.E.S.T.		Dark descends	8:45 P.M., E.S.T.

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.
Add to time of sunset for dark.

Latitude	25°N to 30°N	31°N to 36°N	37°N to 42°N	43°N to 47°N	48°N to 49°N
	h m	h m	h m	h m	h m
Jan. 1 to Apr. 11	1 20	1 26	1 33	1 42	1 50
Apr. 11 to May 3	1 23	1 28	1 39	1 51	2 04
May 3 to May 15	1 26	1 34	1 47	2 02	2 22
May 15 to May 26	1 29	1 38	1 52	2 13	2 42
May 26 to July 23	1 32	1 43	1 59	2 27	—
July 23 to Aug. 4	1 29	1 38	1 52	2 13	2 42
Aug. 4 to Aug. 15	1 26	1 34	1 47	2 02	2 22
Aug. 15 to Sept. 6	1 23	1 28	1 39	1 51	2 04
Sept. 6 to Dec. 31	1 20	1 26	1 33	1 42	1 50

WEATHER TABLE,

For foretelling the Weather through all the lunations of each year, forever.

This table, and the accompanying remarks, are the result of many years' actual observation, the whole being constructed on a due consideration of the attraction of the sun and moon, in their several positions respecting the earth, and will, by simple inspection, show the observer what kind of weather will most probably follow the entrance of the moon into any of its quarters, and that so near the truth as to be seldom or never found to fail.

This weather table will answer very well for anywhere in the United States. It is taken from the 1849 issue of The Old Farmer's Almanac and was widely used before the advent of the Weather Bureau.

The weather forecasts as given on the right hand pages of the Farm Calendars on pages 13 through 35 are strictly for Boston and East of the Hudson River. These forecasts contain elements which rise in the proximity of this region to the sea and to the paths of tropical storms. The application of these forecasts to middle western, western, and southern regions will not bring any reasonable degree of accuracy. However, for a rough rule of thumb if you insist on using the forecast on pages 13-35, you may subtract one day for each time zone West of the Hudson to compensate for the Easterly path of continental storms. For every hundred miles north or south of 42 degrees latitude, add a five degree temperature (colder if north, warmer if south) differential and for every 1000 feet above sea level consider your locality as five degrees cooler than the weather as given.

WEATHER TABLE FOR ANYWHERE

Moon If the new moon, 1st quarter, full moon, or last quarter happens.	Time of Change	In Summer	In Winter
	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
	From 4 A.M. to 6 A.M.	Rain	Rain
	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
	From Noon to 2 P.M.	Very rainy	Snow or rain.
	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
	From 4 P.M. to 6 P.M.	Fair	Fair.
	From 6 P.M. to 8 P.M.	Fair — if wind N.W. Rain — if S. or S.W.	Fair & frosty if wind N. or N.E.; Rain or snow if wind S. or S.W.
	From 8 P.M. to 10 P.M.	Same as from 6 P.M. to 8 P.M.	
	From 10 P.M. to Midnight	Fair	Fair & frosty.

Observations. — 1. The nearer the moon's changes, first quarter, full, and last quarter are to *midnight*, the fairer will it be during the next seven days.

2. The space for this calculation occupies from ten at night till two next morning.

3. The nearer to *midday*, or *noon*, the phases of the moon happen, the more foul or wet weather may be expected during the next seven days.

4. The space for this calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to the summer, though they affect spring and autumn nearly in the same ratio.

5. The moon's change, first quarter, full and last quarter, happening during six of the afternoon hours, i.e., from four to ten, may be followed by fair weather; but this is mostly dependent on the *wind*, as is noted in the table.

6. Though the weather, from a variety of irregular causes, is more uncertain in the latter part of autumn, the whole of winter, and the beginning of spring, yet, in the main, the above observations will apply to those periods also.

7. To prognosticate correctly, especially in those cases where the *wind* is concerned, the observer should be within sight of a good *vane*, where the four cardinal points of the heavens are correctly placed.

The above table was originally formed by Dr. Herschell, and is now published with some alterations founded on the experience of Dr. Adam Clarke.

TO THE WEATHER-WISE

Dr. Foster, of Bruges, who is well known as a meteorologist, declares that, by journals of the weather kept by his grandfather, father, and himself, ever since 1767, to the present time, whenever the new moon has fallen on a Saturday, the following twenty days have been wet and windy, in nineteen cases out of twenty.

TIDE CORRECTIONS

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Pier). Where a value in the "height difference" column is preceded by an*, the height at Boston should be multiplied by this ratio.

	Time Differ- ence h.m.	Height Differ- ence Ft.		Time Differ- ence h.m.	Height Differ- ence Ft.
MAINE			PENNSYLVANIA		
Augusta	+3 50	*0.4	Philadelphia . . .	+2 29	*0.5
Bangor	-0 05	+3.6	DELAWARE		
Bar Harbor	-0 33	+1.1	Rehoboth	-3 37	*0.4
Boothbay Harbor . .	-0 20	-0.8	MARYLAND		
Eastport	-0 28	*1.9	Baltimore	-4 25	*0.1
Old Orchard	-0 10	-0.7	Ocean City	-3 57	*0.4
Portland	-0 10	-0.6	DISTRICT OF COLUMBIA		
Stonington	-0 30	+0.2	Washington	-3 08	*0.3
NEW HAMPSHIRE			VIRGINIA		
Hampton	+0 15	-1.2	Norfolk	-1 54	*0.3
MASSACHUSETTS			Virginia Beach . .	-3 14	*0.3
Fall River	-3 16	*0.5	NORTH CAROLINA		
Falmouth	-0 40	*1.1	Beaufort	-2 59	*0.3
Hyannisport	+0 45	*0.3	Carolina Beach . .	-3 30	*0.4
Lynn	+0 05	-0.2	SOUTH CAROLINA		
Marblehead	-0 05	-0.3	Myrtle Beach . . .	-3 45	*0.5
Marion	-3 16	*0.4	Charleston	-3 15	*0.5
Monument Beach . .	-3 06	*0.4	GEORGIA		
Nantasket	+0 10	+0.1	St. Simon's Island .	-2 51	*0.7
Nantucket	+0 50	*0.3	Savannah	-2 40	*0.8
New Bedford	-3 21	*0.4	Tybee Beach	-3 26	*0.8
Oak Bluffs	+0 05	*0.2	FLORIDA		
Onset	-3 06	*0.5	Daytona	-3 20	*0.4
Plymouth	0 00	+0.1	Fort Lauderdale . .	-2 15	*0.3
Provincetown . . .	+0 15	-0.3	Jacksonville . . .	-0 40	*0.1
Scituate	-0 05	-0.5	Miami	-3 00	*0.3
Wellfleet	+0 20	+0.6	Palm Beach	-3 20	*0.3
Woods Hole	-3 01	*0.2	Port Everglades . .	-2 15	*0.3
RHODE ISLAND			St. Augustine . . .	-2 20	*0.5
Block Island	-3 21	*0.3	St. Petersburg . . .	+3 58	*0.2
Narragansett Pier .	-3 31	*0.4	WASHINGTON		
Newport	-3 31	*0.4	Ilwaco	+1 44	-3.5
Providence	-3 11	*0.5	Port Townsend . . .	+5 04	*0.5
Watch Hill	-2 06	*0.3	Seattle	+5 37	-2.0
CONNECTICUT			OREGON		
Long Island Sound .	-0 02	*0.7	Astoria	+1 37	-3.3
New London	-1 47	*0.3	Cape Arago	+1 19	-4.8
NEW YORK			Yaquina Head . . .	+1 12	-3.7
Coney Island	-3 00	*0.5	CALIFORNIA		
Long Beach	-3 57	*0.5	Catalina Island . .	-1 33	-5.9
Long Island Sound .	+0 08	*0.7	Crescent City . . .	+0 56	-5.0
New York City . . .	-2 50	*0.5	Eureka	+1 20	-5.0
Ocean Beach	-3 57	*0.4	Long Beach	-1 37	-5.5
Southampton . . .	-3 22	*0.3	Monterey	-0 03	*0.4
NEW JERSEY			Point Mendocino . .	+0 24	*0.4
Atlantic City	-3 57	*0.5	San Diego	-1 35	-5.9
Bayside	-0 24	*0.6	San Francisco . . .	+0 59	*0.4
Cape May	-3 37	*0.5	Santa Barbara . . .	-1 19	-6.0
Ocean City	-3 17	*0.4	Santa Cruz	+0 08	*0.4
Seabright					
to	-3 44	*0.5			
Seaside Park					

Example: The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 12-34 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 13-35. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

See page 18, column 11.

BOSTON
High Tide (from page 18) 10.15 P.M.E.S.T.
April 16

Height (from page 19) 9.5 feet

MIAMI
High tide (Boston) 10.15 P.M.
Correction above -3.00
High tide (Miami) 7.15 A.M.E.S.T.
Height (Miami) 2.9 feet
(9.5 x 0.3)

ALMANAC DATA — ALL POINTS IN U.S.A.

TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, AND RISING AND SETTING
OF PLANETS TO WITHIN 5 MIN. ACCURACY ANYWHERE IN U. S. A.

(See explanation on preceding pages 100 and 101.)

Time used	A		B		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
	m		m		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m		
Your town (interpolate between nearest two in your time zone) SUBTRACT OR ADD these minutes to Almanac times given (pages 12-34).																					
Amarillo, Texas.....	CST	+	88	85	82	78	74	70	66	63	59	55	51	48	44	40	37	33	30	+	4
Atlanta, Ga.....	EST	+	87	81	80	75	71	66	62	57	53	48	44	39	35	31	27	23	19	+	2
Augusta, Ga.....	EST	+	79	75	71	66	62	57	52	48	43	39	34	29	25	20	16	12	8	+	2
Baltimore, Md.....	EST	+	36	34	32	31	29	27	25	23	22	20	19	17	15	13	12	10	8	+	1
Beaumont-Port Arthur, Texas.....	CST	+	78	73	68	62	65	49	43	37	31	25	19	13	7	1	4	10	15	+	3
Birmingham, Ala.....	CST	+	38	34	30	25	21	16	11	7	2	2	7	11	16	20	24	28	33	+	2
Canton, Ohio.....	EST	+	48	47	46	45	44	44	43	42	41	40	39	39	38	37	36	35	34	+	1
Charleston, S. C.....	EST	+	73	69	64	60	54	49	44	40	35	30	25	20	15	11	6	2	3	+	1
Charleston, W. Va.....	EST	+	59	57	55	53	51	48	46	44	42	40	37	35	33	31	29	27	25	+	1
Chicago, Ill.....	CST	+	9	8	8	8	7	7	7	7	6	6	6	5	5	5	5	4	4	+	2
Cincinnati, Ohio.....	EST	+	68	66	65	63	61	59	57	55	54	52	50	48	46	45	43	41	39	+	2
Columbia, S. C.....	EST	+	73	70	66	61	57	52	48	44	39	35	31	26	22	18	14	10	6	+	1
Columbus, Ga.....	EST	+	94	90	85	80	75	70	65	60	55	50	45	40	35	30	26	21	17	+	2
Columbus, Ohio.....	EST	+	58	57	56	54	52	50	49	47	46	45	43	42	41	40	39	38	37	+	2
Corpus Christi, Texas.....	CST	+	103	98	91	83	75	68	60	52	45	37	29	21	14	6	0	7	14	+	4
Dallas-Ft. Worth, Texas.....	CST	+	81	78	73	68	63	58	53	48	43	38	33	28	23	19	14	10	5	+	4
Denver, Colo.....	MST	+	27	26	23	23	21	20	18	17	16	14	13	11	10	8	7	6	4	+	5
Des Moines, Iowa.....	CST	+	34	34	33	33	32	31	31	30	30	30	29	29	28	28	27	27	26	+	3
Detroit, Michigan.....	EST	+	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	+	2
Durham, N. C.....	EST	+	58	56	52	48	45	41	38	34	31	28	24	21	17	14	11	8	5	+	1
Evansville, Ind.....	CST	+	25	23	20	18	15	13	11	8	6	3	1	1	4	6	8	11	13	+	2
Galveston-Houston, Texas.....	CST	+	84	79	73	67	61	54	48	41	35	29	23	16	10	4	1	7	13	+	3
Hamilton-Middletown, Ohio.....	EST	+	66	65	63	61	60	58	56	55	53	52	50	48	47	45	44	42	40	+	2
Hartford-New Britain, Conn.....	EST	+	10	9	9	8	8	8	8	7	7	7	6	6	5	5	4	4	4	+	0
Indianapolis, Ind.....	CST	+	12	11	9	8	6	5	3	2	0	1	1	3	4	7	8	10	11	+	2
Jackson, Miss.....	EST	+	55	51	47	42	36	31	26	21	16	11	6	0	5	9	14	18	23	+	3
Jacksonville, Fla.....	EST	+	87	83	77	71	65	59	53	47	42	36	30	24	18	12	7	2	4	+	1

Little Rock, Ark.....	EST	+ 55	+ 52	+ 48	+ 44	+ 40	+ 36	+ 32	+ 28	+ 24	+ 21	+ 17	+ 13	+ 9	+ 5	+ 1	- 2	- 6	+ 3
Los Angeles, Cal.....	PST	+ 41	+ 38	+ 34	+ 30	+ 25	+ 21	+ 17	+ 12	+ 8	+ 4	- 1	- 5	- 9	- 13	- 17	- 21	- 25	+ 7
Macon, Georgia.....	EST	+ 58	+ 81	+ 79	+ 74	+ 69	+ 61	+ 60	+ 55	+ 50	+ 45	+ 40	+ 35	+ 30	+ 26	+ 21	+ 17	+ 12	+ 2
Madison, Wis.....	CST	+ 40	+ 11	+ 11	+ 12	+ 12	+ 12	+ 13	+ 13	+ 14	+ 14	+ 15	+ 15	+ 15	+ 16	+ 16	+ 17	+ 17	+ 3
Memphis, Tenn.....	CST	+ 45	+ 42	+ 38	+ 31	+ 27	+ 23	+ 23	+ 19	+ 15	+ 12	+ 8	+ 4	0	- 4	- 7	- 10	- 14	+ 3
Miami, Fla.....	EST	+ 95	+ 90	+ 83	+ 75	+ 67	+ 59	+ 51	+ 44	+ 36	+ 28	+ 20	+ 13	+ 0	- 2	- 9	- 16	- 23	+ 1
Mobile, Ala.....	CST	+ 52	+ 48	+ 42	+ 36	+ 31	+ 25	+ 19	+ 13	+ 7	+ 2	- 4	- 10	- 16	- 21	- 26	- 31	- 37	+ 1
Montgomery, Ala.....	CST	+ 40	+ 33	+ 31	+ 26	+ 21	+ 16	+ 11	+ 5	0	- 5	- 10	- 15	- 20	- 25	- 29	- 34	- 38	+ 2
Nashville, Tenn.....	CST	+ 29	+ 26	+ 23	+ 19	+ 16	+ 12	+ 9	+ 6	+ 3	- 1	- 4	- 7	- 11	- 14	- 17	- 20	- 23	+ 2
New Haven-Bridgeport, Conn.....	EST	+ 9	+ 9	+ 9	+ 8	+ 8	+ 7	+ 7	+ 7	+ 6	+ 6	+ 6	+ 5	+ 5	+ 4	+ 4	+ 4	+ 3	0
New Orleans, La.....	CST	+ 63	+ 58	+ 52	+ 46	+ 40	+ 31	+ 28	+ 21	+ 15	+ 9	+ 3	- 3	- 9	- 15	- 20	- 26	- 31	+ 3
New York, N. Y.....	EST	+ 18	+ 17	+ 16	+ 15	+ 14	+ 13	+ 13	+ 12	+ 11	+ 10	+ 9	+ 8	+ 8	+ 7	+ 6	+ 5	+ 4	+ 0
Norfolk-Portsmouth-Newport News, Va.....	EST	+ 44	+ 42	+ 39	+ 36	+ 33	+ 30	+ 27	+ 21	+ 21	+ 18	+ 15	+ 12	+ 9	+ 7	+ 4	+ 1	+ 2	+ 1
Oklahoma City, Okla.....	CST	+ 74	+ 71	+ 67	+ 61	+ 60	+ 56	+ 53	+ 49	+ 45	+ 42	+ 38	+ 31	+ 31	+ 27	+ 24	+ 21	+ 17	+ 4
Ottawa, Ontario.....	EST	+ 3	+ 5	+ 7	+ 9	+ 11	+ 13	+ 15	+ 17	+ 19	+ 21	+ 23	+ 24	+ 26	+ 28	+ 30	+ 32	+ 34	+ 1
Philadelphia, Pa.....	EST	+ 27	+ 26	+ 25	+ 23	+ 22	+ 20	+ 19	+ 19	+ 16	+ 15	+ 13	+ 12	+ 11	+ 9	+ 8	+ 7	+ 5	+ 1
Phoenix, Arizona.....	MST	+ 79	+ 75	+ 71	+ 67	+ 62	+ 57	+ 53	+ 48	+ 44	+ 39	+ 34	+ 30	+ 25	+ 21	+ 17	+ 13	+ 8	+ 6
Pittsburg, Pa.....	EST	+ 41	+ 43	+ 42	+ 41	+ 40	+ 39	+ 38	+ 37	+ 36	+ 35	+ 33	+ 32	+ 31	+ 30	+ 29	+ 28	+ 27	+ 1
Portland, Maine.....	EST	- 9	- 9	- 8	- 7	- 6	- 5	- 4	- 4	- 3	- 2	- 1	- 1	0	+ 1	+ 2	+ 2	+ 3	0
Pueblo, Colo.....	MST	+ 32	+ 30	+ 28	+ 25	+ 23	+ 21	+ 18	+ 16	+ 14	+ 12	+ 10	+ 7	+ 5	+ 3	+ 1	- 1	- 3	+ 5
Richmond, Va.....	EST	+ 47	+ 41	+ 41	+ 38	+ 36	+ 33	+ 30	+ 28	+ 25	+ 22	+ 20	+ 17	+ 15	+ 12	+ 10	+ 7	+ 5	+ 7
Sacramento, Cal.....	PST	+ 38	+ 35	+ 31	+ 32	+ 30	+ 28	+ 26	+ 24	+ 22	+ 20	+ 17	+ 15	+ 13	+ 11	+ 9	+ 7	+ 5	+ 3
St. Louis, Mo.....	CST	+ 33	+ 32	+ 33	+ 28	+ 25	+ 23	+ 21	+ 19	+ 17	+ 15	+ 13	+ 11	+ 9	+ 7	+ 5	+ 3	+ 1	+ 4
Salt Lake City, Utah.....	MST	+ 50	+ 50	+ 49	+ 48	+ 47	+ 46	+ 45	+ 44	+ 43	+ 42	+ 41	+ 40	+ 39	+ 38	+ 37	+ 36	+ 35	+ 4
San Antonio, Texas.....	CST	+ 95	+ 90	+ 85	+ 78	+ 72	+ 66	+ 60	+ 54	+ 48	+ 41	+ 35	+ 29	+ 23	+ 17	+ 12	+ 6	+ 1	+ 4
San Diego, Cal.....	PST	+ 42	+ 38	+ 33	+ 29	+ 24	+ 19	+ 14	+ 9	+ 4	- 1	- 6	- 11	- 16	- 20	- 24	- 29	- 33	+ 6
San Francisco-Oakland, Cal.....	PST	+ 44	+ 42	+ 40	+ 38	+ 35	+ 33	+ 30	+ 28	+ 25	+ 23	+ 20	+ 18	+ 15	+ 13	+ 11	+ 8	+ 6	+ 7
San Jose, Cal.....	PST	+ 45	+ 42	+ 40	+ 37	+ 34	+ 31	+ 28	+ 26	+ 23	+ 21	+ 19	+ 16	+ 14	+ 12	+ 10	+ 8	+ 6	+ 7
Savannah, Ga.....	EST	+ 80	+ 76	+ 71	+ 66	+ 60	+ 55	+ 50	+ 45	+ 40	+ 34	+ 29	+ 24	+ 19	+ 14	+ 9	+ 5	0	+ 1
Seattle, Wash.....	PST	- 2	+ 1	+ 4	+ 8	+ 12	+ 15	+ 19	+ 22	+ 26	+ 29	+ 32	+ 36	+ 39	+ 43	+ 47	+ 50	+ 53	+ 7
Springfield-Dayton, Ohio.....	EST	+ 63	+ 62	+ 60	+ 59	+ 57	+ 56	+ 55	+ 53	+ 52	+ 50	+ 49	+ 47	+ 46	+ 45	+ 44	+ 43	+ 40	+ 2
Spokane, Wash.....	PST	+ 22	+ 19	+ 16	+ 12	+ 8	- 4	- 1	+ 3	+ 6	+ 9	+ 13	+ 16	+ 20	+ 23	+ 26	+ 30	+ 34	+ 6
Stockton, Cal.....	PST	+ 44	+ 42	+ 39	+ 37	+ 34	+ 32	+ 29	+ 27	+ 25	+ 22	+ 20	+ 17	+ 15	+ 13	+ 10	+ 8	+ 6	+ 7
Tacoma, Wash.....	PST	+ 1	+ 3	+ 6	+ 10	+ 13	+ 17	+ 20	+ 23	+ 26	+ 29	+ 32	+ 35	+ 39	+ 42	+ 45	+ 48	+ 52	+ 7
Tampa-St. Petersburg, Fla.....	EST	+ 99	+ 94	+ 87	+ 80	+ 73	+ 66	+ 59	+ 52	+ 45	+ 38	+ 31	+ 24	+ 17	+ 11	+ 5	- 1	- 8	+ 2
Washington, D. C.....	EST	+ 39	+ 37	+ 36	+ 34	+ 32	+ 30	+ 28	+ 26	+ 24	+ 22	+ 20	+ 18	+ 16	+ 14	+ 12	+ 10	+ 8	+ 1
Wilmington, Del.....	EST	+ 29	+ 28	+ 27	+ 25	+ 24	+ 22	+ 21	+ 19	+ 18	+ 16	+ 15	+ 14	+ 12	+ 11	+ 9	+ 8	+ 6	+ 1
Winnipeg, Manitoba.....	CST	+ 2	+ 7	+ 13	+ 19	+ 25	+ 30	+ 35	+ 40	+ 45	+ 50	+ 55	+ 60	+ 66	+ 71	+ 76	+ 82	+ 89	+ 4

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GLOSSARY OF ASTRONOMICAL TERMS, ETC.

- Aph.** — **Aphelion** . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.
- Apo.** — **Apogee** . . . Moon reaches point in its orbit farthest from Earth.
- Conj.** — **conjunction** . . . moment of closest approach to each other of any two heavenly bodies.
- declination** (see top left hand calendar pages) . . . measure of angular distance any celestial object lies perpendicularly north or south of celestial equator. Exactly analogous to terrestrial latitude. OFA gives declination at time each day the Sun is due South.
- Dominical Letter** . . . used in reckoning civil calendars.
- Eclipse, annular** . . . when sunlight shows around the Moon during the eclipse.
- Eclipse, lunar** . . . opposition of Sun and Moon with moon at or near node.
- Eclipse, solar** . . . conjunction of Sun and Moon with Moon at or near node.
- Ecliptic** . . . that circle in which the plane of the orbit of the Earth about the Sun would if extended cut the celestial sphere — or the apparent path of the Sun in the sky in a year due to the Earth's revolution about the Sun each year.
- El.** — **elongation** . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.
- Epact** . . . used in reckoning ecclesiastical calendars, age of calendar moon Jan. 1.
- Eq.** . . . equator.
- Equinox, autumnal** . . . Sun passes from northern to southern hemisphere. Fall.
- Equinox, vernal** . . . sun passes from southern to northern hemisphere. Spring.
- Full Sea** (Morn and Eve) . . . the time the tide is high in the morning and in the evening at Commonwealth Pier, Boston. A correction table in the OFA also adjusts this time for other places. (See page 10.3)
- Gr. El.** . . . greatest elongation.
- Golden Number** . . . used in reckoning civil calendars.
- Inf.** — **Inferior** . . . Inferior conjunction is when the Planet is between the Sun and the Earth.
- Julian Period** . . . First year was 4713 B.C. Its length is 7980 years.
- Moon's Age** . . . average time elapsing between new moons (max. $29\frac{1}{2}$ days). Calculated when Moon is due South.
- (D) First Quarter . . . moon in quadrature East or one half of the side of the moon toward the earth is illuminated.
- (O) Full Moon . . . moon reaches opposition.
- (Q) Last Quarter . . . moon in quadrature West.
- (C) New Moon . . . Sun and Moon in conjunction.
- Moon Rise and Set** . . . as used in the OFA apply only to risings and settings between sunset and sunrise . . . or during the night.
- Moon Runs High or Low** . . . day of month Moon Souths highest or lowest above the horizon.
- Moon Souths** . . . Moon exactly above South point of observer's horizon.
- Occultations** . . . eclipses of Stars by the Moon.
- Opposition** . . . time when Sun, and Moon or Planet appear on opposite sides of the sky (elongation 180 degrees).
- O.S.** — **Old Style** . . . was when calendar was eleven days "out of whack." In September, 1752, the 3rd was reckoned as the 14th, to make present calendar.
- Peri.** — **Perigee** . . . Moon reaches point in its orbit closest to Earth.
- Peri.** — **Perihelion** . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.
- R.A.** — **Right Ascension** . . . the measure Eastward along the celestial equator of any celestial body from the vernal equinox to the point where the circle which passes through the object perpendicular to the celestial equator intersects the latter.
- Rain** . . . drops large enough to splatter on the old man's bald head.
- Roman Indiction** . . . used in reckoning ecclesiastical calendars.
- Snow** . . . when a cat's tracks are visible on the barn roof.
- Solar Cycle** . . . used in reckoning civil calendars.
- Solstice, Summer** . . . point at which the Sun is farthest north of the celestial equator, passing overhead on the Tropic of Cancer. Beginning of Summer.
- Solstice, Winter** . . . limit of Sun's journey south of the celestial equator, passing overhead on the Tropics of Capricorn. Beginning of Winter.
- Star, Evening** . . . above horizon at Sunset.
- Star, Morning** . . . above horizon at Sunrise.
- Stat.** — **stationary** . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.
- Sunrise and Sunset** . . . visible rising and setting of Sun's upper limb across the unobstructed horizon of an observer whose eyes are 15 feet above ground level.
- Sun Fast** . . . the times given in this column must be subtracted from your Sun Dial to arrive at the correct time.
- Sup.** — **Superior** . . . Superior Conjunction is when the Sun is between the Planet and the Earth.
- Twilight** . . . begins or ends when stars of the sixth magnitude disappear or appear at the Zenith — or the Sun is appr. 18 degrees below the horizon.
- Underground Moon** . . . one which changes its phases between 12 M. and 1 A.M.

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ANSWERS TO WORD CHARADES ON PAGE 80

- | | | |
|----------------|--------------|---------------|
| 1. Investigate | 5. Carpet | 9. Butterfly |
| 2. Carpet | 6. Maypole | 10. Over-plus |
| 3. Nightshade | 7. Dogmatism | 11. Farewell |
| 4. Damage | 8. Damage | |

ANSWERS TO OLD-FASHIONED PUZZLES ON PAGE 82

Conundrums

1. Scissors. 2. It is an outside wrap. 3. A gun. 4. When his wig is unpaid for. 5. They need to be strapped. 6. When it is filed. 7. When it is bound to a pier. 8. A law-suit.

Riddles

1. Nowhere. 2. To-morrow. 3. A crown.

Anagrams

1. Time-emit- mite-item. 2. Reed-deer.

Problems

1. 11. 2. $\frac{1}{4}$ inch.

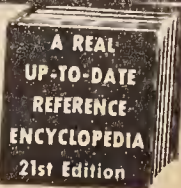
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Cypher Contest Winners

Winners of the contest announced page 110 of the 1953 OFA are Miss A. K. Marshall, New York City (1st), Ruth Boss, N. Scituate, R. I. (2nd), Carrie Irons, Manchester, Ct. (Third). The cypher 72-2-2 referred to Page 72, second advertisement, second line of ad.

For this year, the money goes (1st, \$25.00—2nd, \$15.00—3rd, \$5.00) for the best one line rhyme to the solution of Cypher 73-AD3-1. Contest closes Aug. 15, 1954. No entries returned . . . all become property of Yankee, Inc. Case of the place money lumped and divided. Staff of YANKEE final judge. Winners announced 1955 OFA. Address Cypher Contest, Yankee, Inc., Dublin, N. H.

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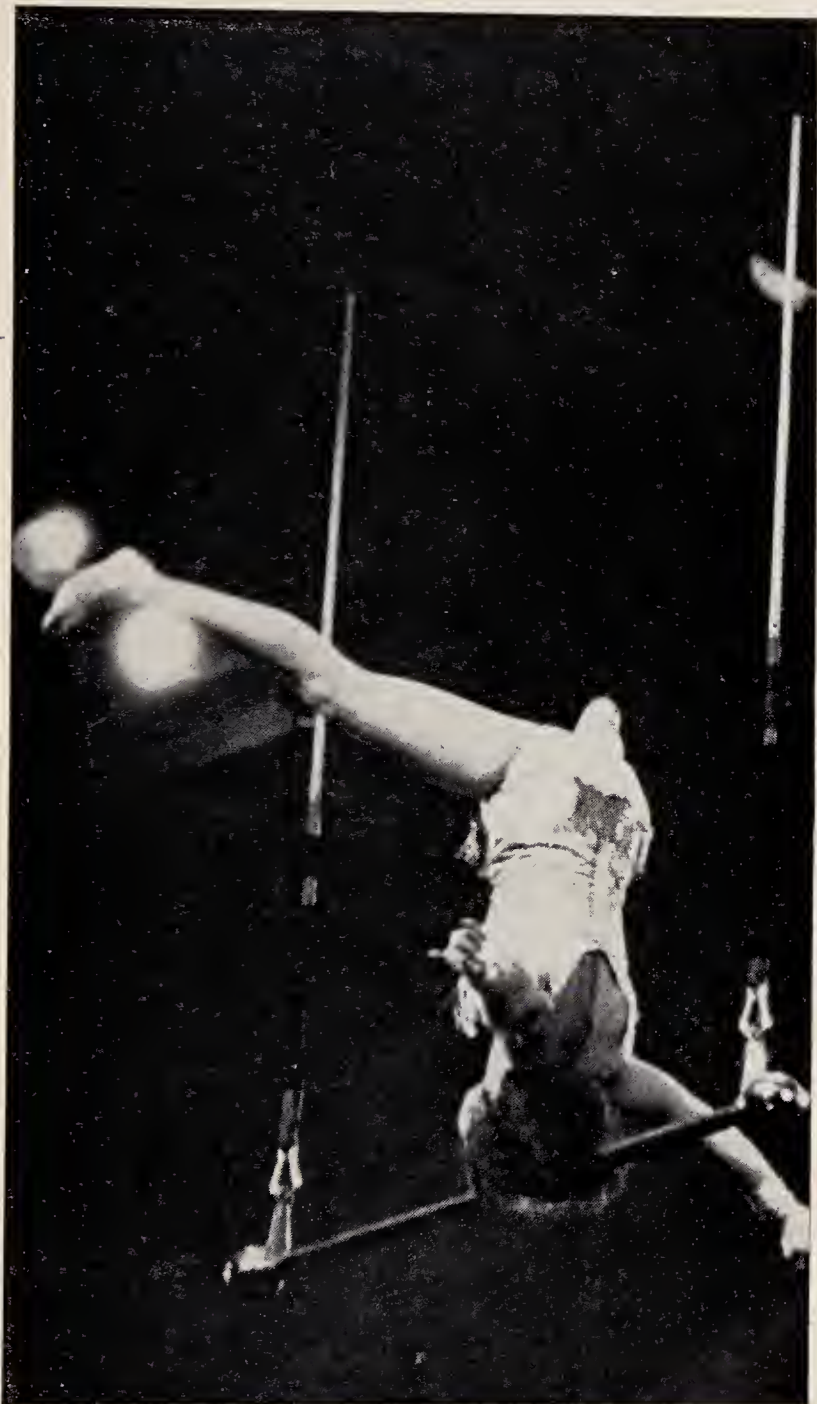
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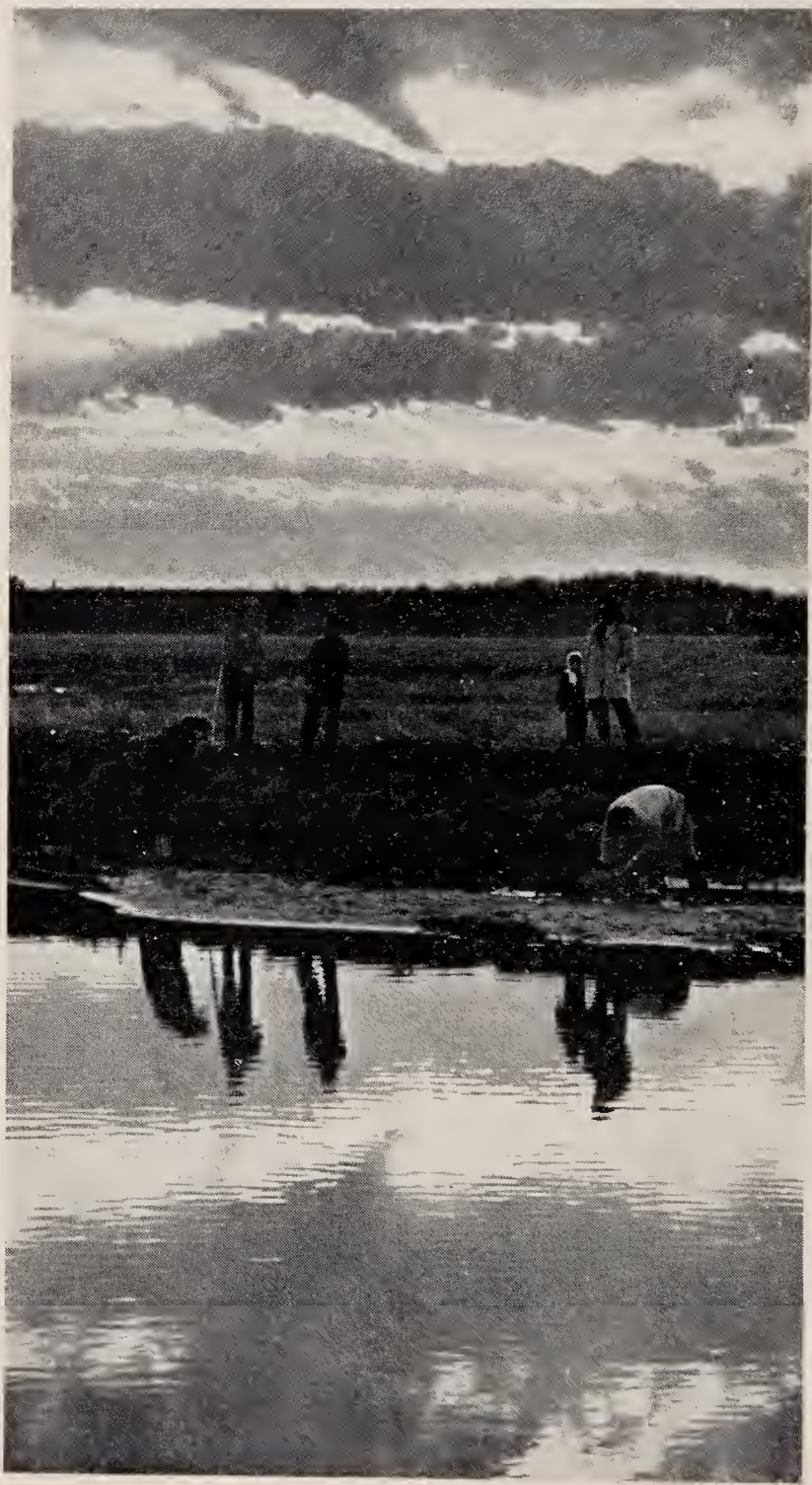
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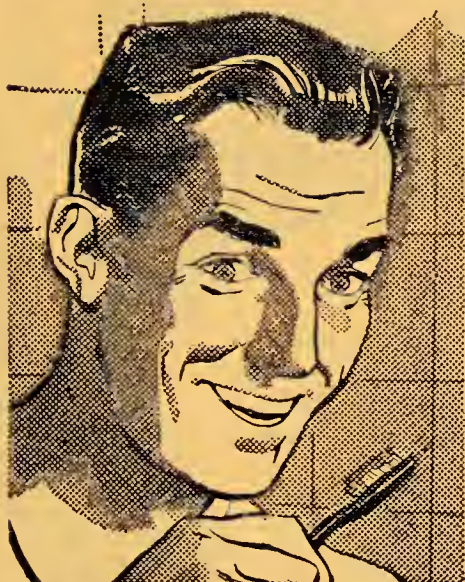


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